

Welcome!

We will begin the meeting shortly.

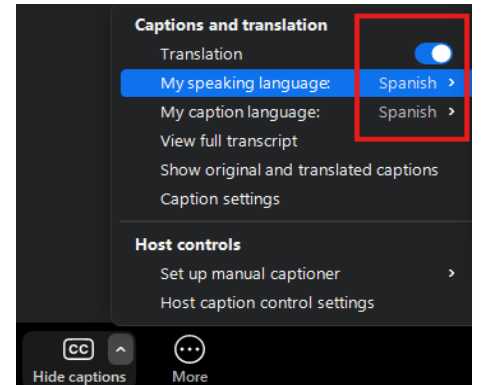
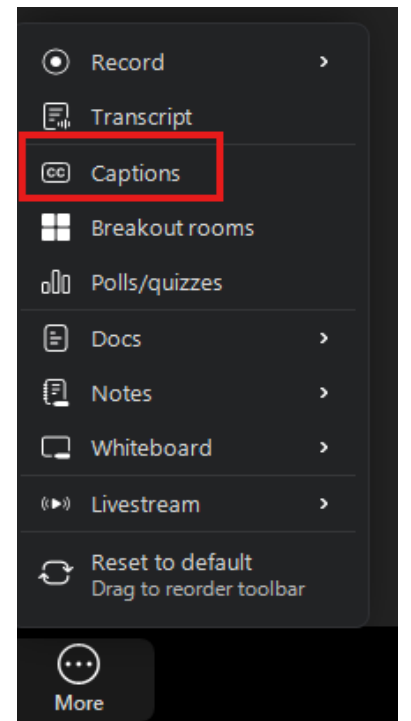
Please turn on the closed captioning option and select your preferred speaking and caption language.

Instructions for Arabic, Bengali, and Spanish speakers are noted below.

في خيارات الترجمة النصية أدناه، يُرجى اختيار الترجمات، ولغة التحدث، ولغة الترجمة .
لأطرح سؤال، يُرجى رفع يدك. سيتم ترجمة سؤالك.

নরক নচার্বন ষাভ নশপ্যক ংবএ ষাভ রানপআ ।নরক লুচ টনিশপঅ নশপ্যক রকে হগ্রনুঅ
প্রশ্ন জিজ্ঞাসা করতে,হাত তুলুন। আপনার প্রশ্নটি অনুবাদ করা হবে।

En las opciones de subtítulos a continuación, por favor seleccione las traducciones, su idioma de habla y el idioma de los subtítulos. Para hacer una pregunta, por favor levante la mano. Su pregunta será traducida.



Parkchester & Morris Park Cloudburst Hub

60% Design - Community Update

June 5, 2025

Agenda

Cloudburst Program

Parkchester/Morris Park Cloudburst Hub

Recap of Visioning Phase

Morris Park

Parkchester

Further Opportunities for Community Input

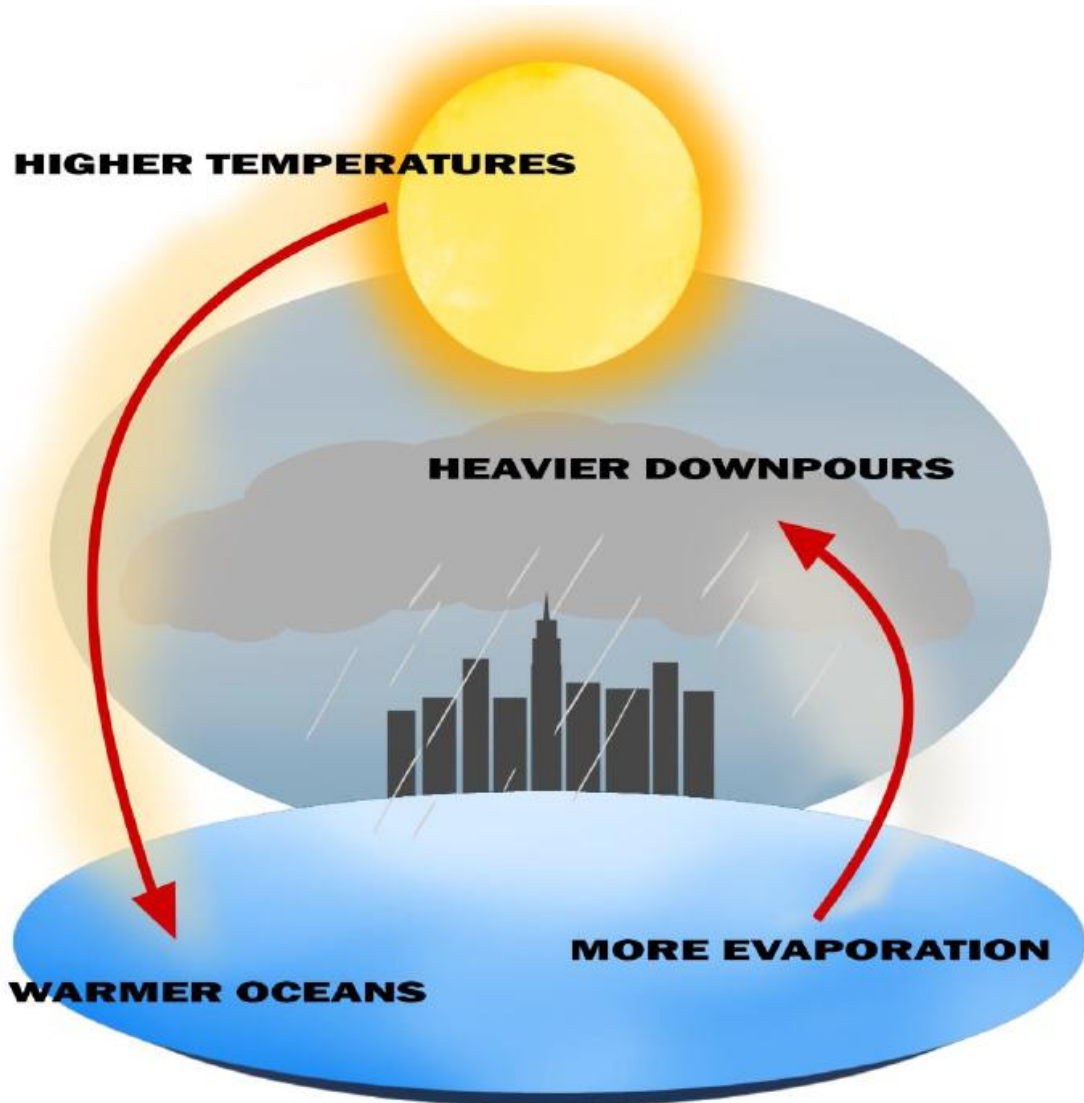
Next Steps

The Problem

Climate change is causing more localized flooding across NYC.



Our Changing Climate



Sudden, powerful storms are bringing more **intense rainfall** to New York City.

In 2020 NOAA (National Oceanic and Atmospheric Administration) **reclassified NYC** from a “**coastal temperate**” climate zone to a “**humid subtropical**” climate zone.

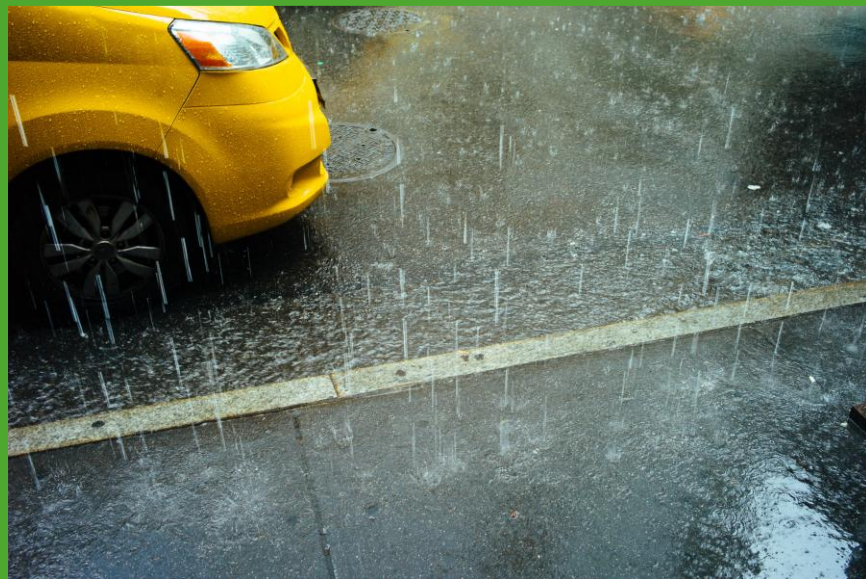
- August 2021 (Henri) – 1.94 inches in an hour
- **September 2021 (Ida) – 3.15 inches in an hour**
- September 29, 2023 – 2.5 inches in an hour

In 2023, NYC experienced **rain every 3 days**.

There are several different types of flooding that New Yorkers may experience, either combined or in isolation during a flooding event.

Overland Flooding

Occurs when rainwater flows downhill over the land and collects in low-lying areas.



Groundwater Flooding

Occurs when the ground becomes saturated with water, either due to historic waterways below the surface, or when prolonged rain leads to oversaturation.



Photo Credit: The City



System Surcharging

Occurs when the sewer system is unable to properly convey the flow during a rainfall event.



Photo Credit: NY Daily News

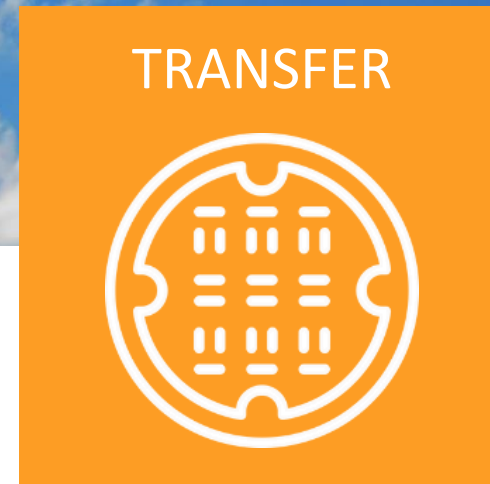
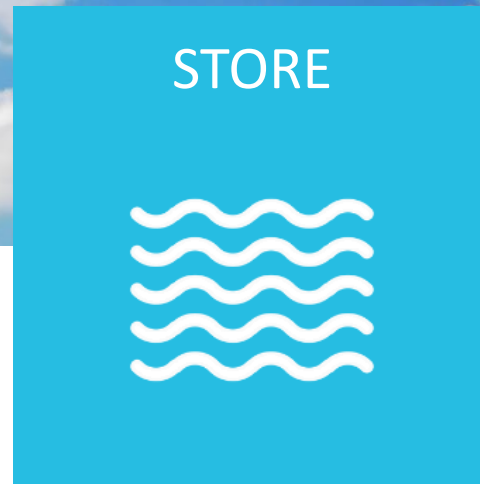
Coastal Flooding

Occurs when rising tides or storm surges push ocean water over the coastline.



What is a cloudburst?

A cloudburst is a sudden, heavy downpour where a lot of rain falls in a short amount of time. Cloudbursts can cause flooding, damage property, disrupt critical infrastructure, and pollute New York's rivers and Harbor.



What is Cloudburst Infrastructure?

- **Cloudburst infrastructure** captures and holds rainwater from these high intensity / short duration rain events.
- It is typically designed to manage up to **2.3 inches of rain per hour**.
- It is a networked combination of grey and green infrastructure.

Cloudburst Toolbox



Porous Pavement

bike lanes and parking lanes



Rain Gardens + Bioswales

streets and sidewalks

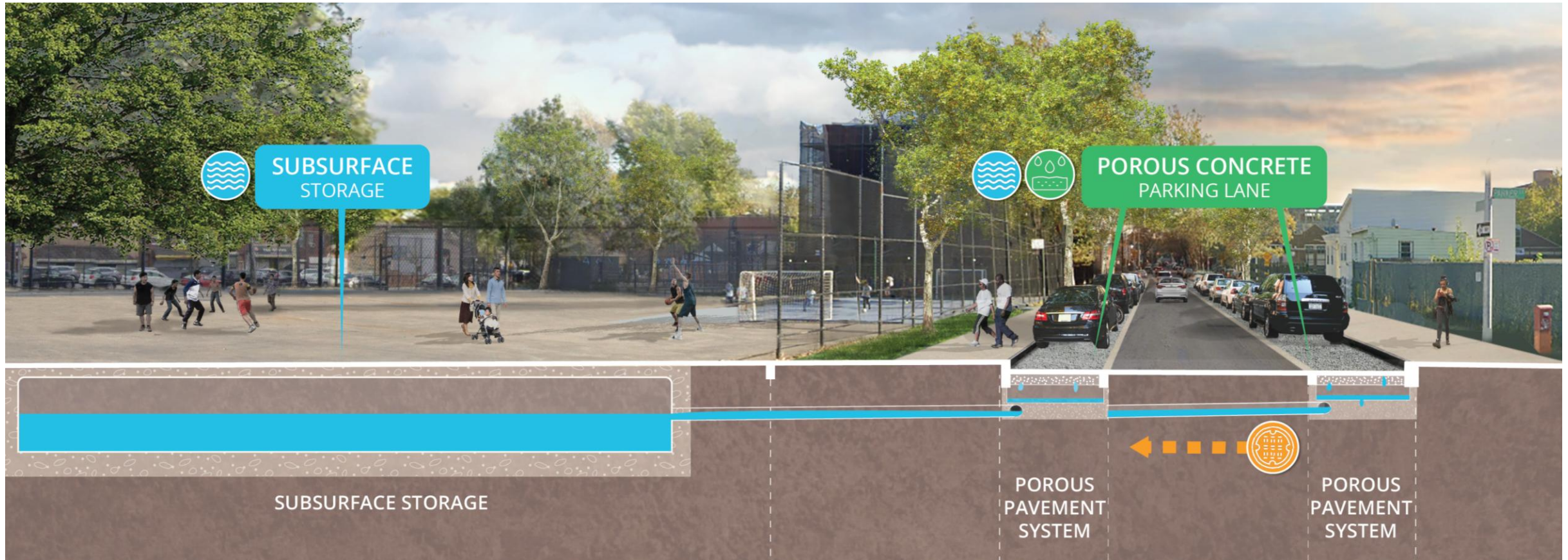


Subsurface Water Detention

parking lots, fields and courts,
lawns, streets

Cloudburst Hubs

Cloudburst Hubs are identified at the sub-catchment scale, which are hydraulically connected areas based on the sewer network. **In short, a Cloudburst Hub is the area that is contributing stormwater flows to a target flooding hotspot.**



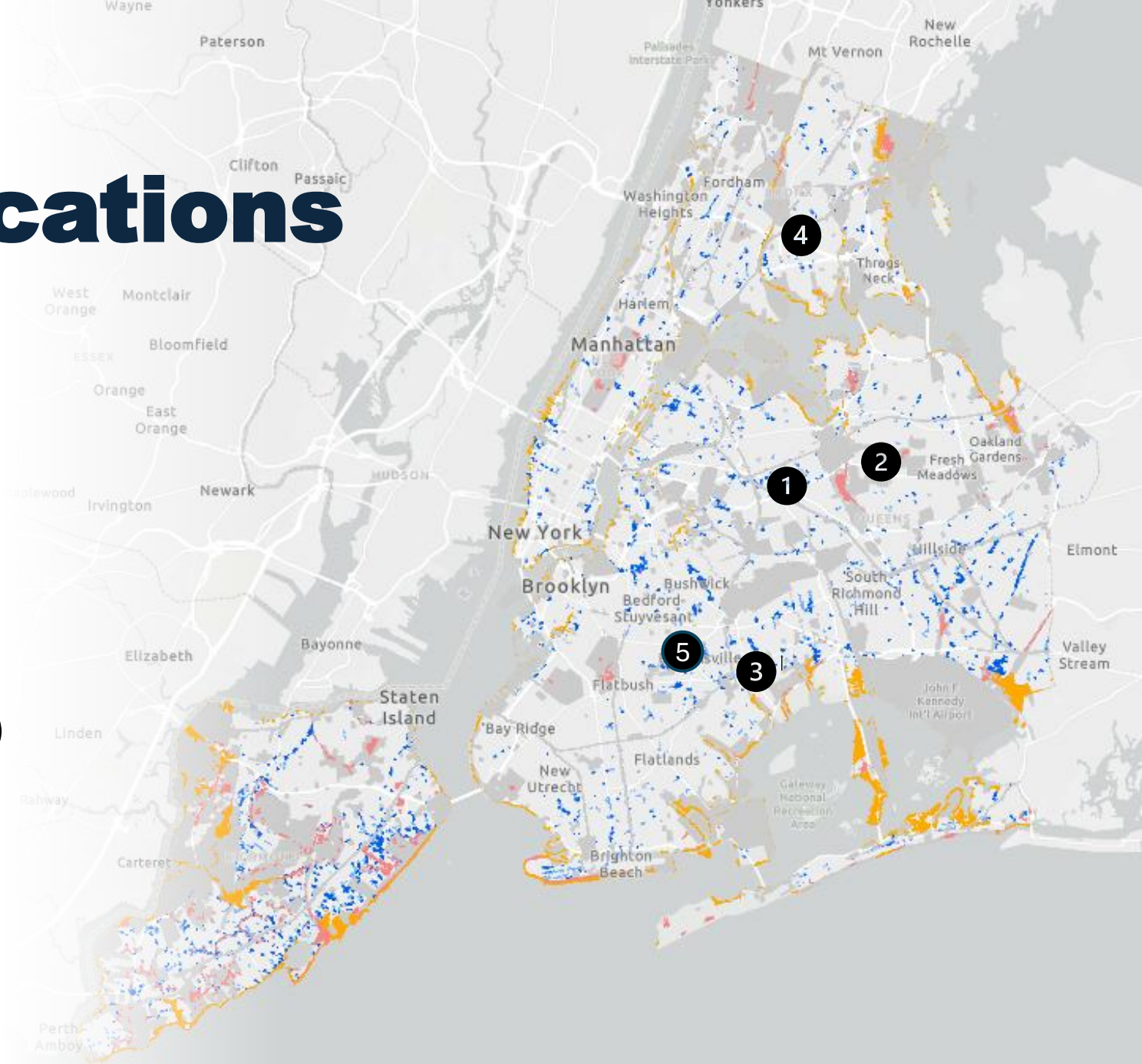
1 = Initial Locations

5 Initial Hub Locations

Announced January 2023

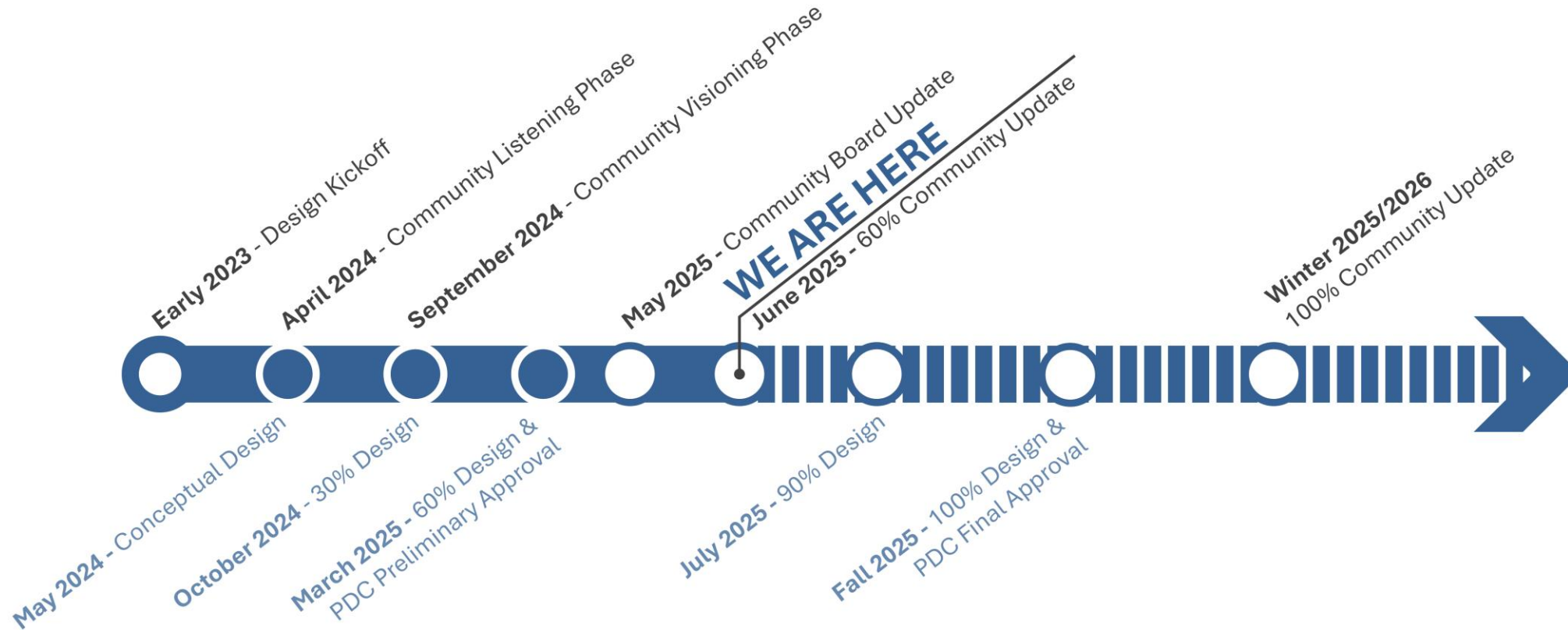
1. Corona (Queens)
2. Kissena (Queens)
3. East New York (Brooklyn)
4. Parkchester/Morris Park (Bronx)
5. Brownsville (Brooklyn)*

*Partially funded, will be transferred to DDC

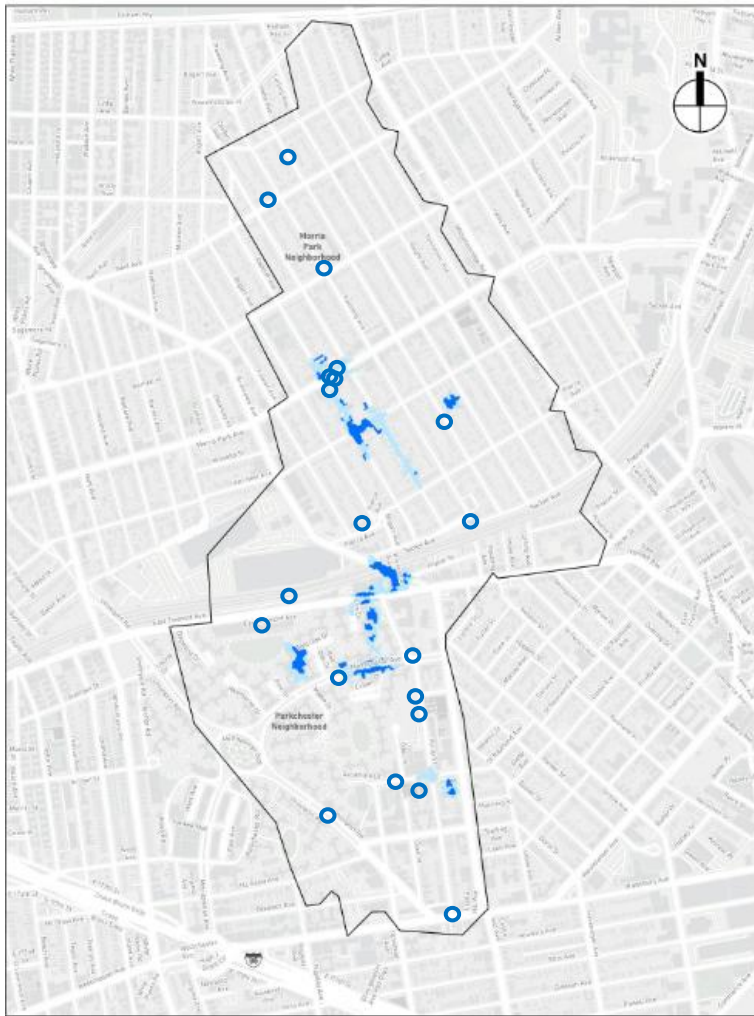


Parkchester & Morris Park Cloudburst Hub

Project Timeline



Flooding in Parkchester & Morris Park



Moderate Flooding (10-year storm)

NYC Stormwater Flood Maps (Moderate Flooding)

- Area not included in analysis
- Deep and Contiguous Flooding (1ft and greater)
- Nuisance Flooding (greater or equal to 4 in and less than 1 ft)
- Areas of Flooding as Identified by Community Members



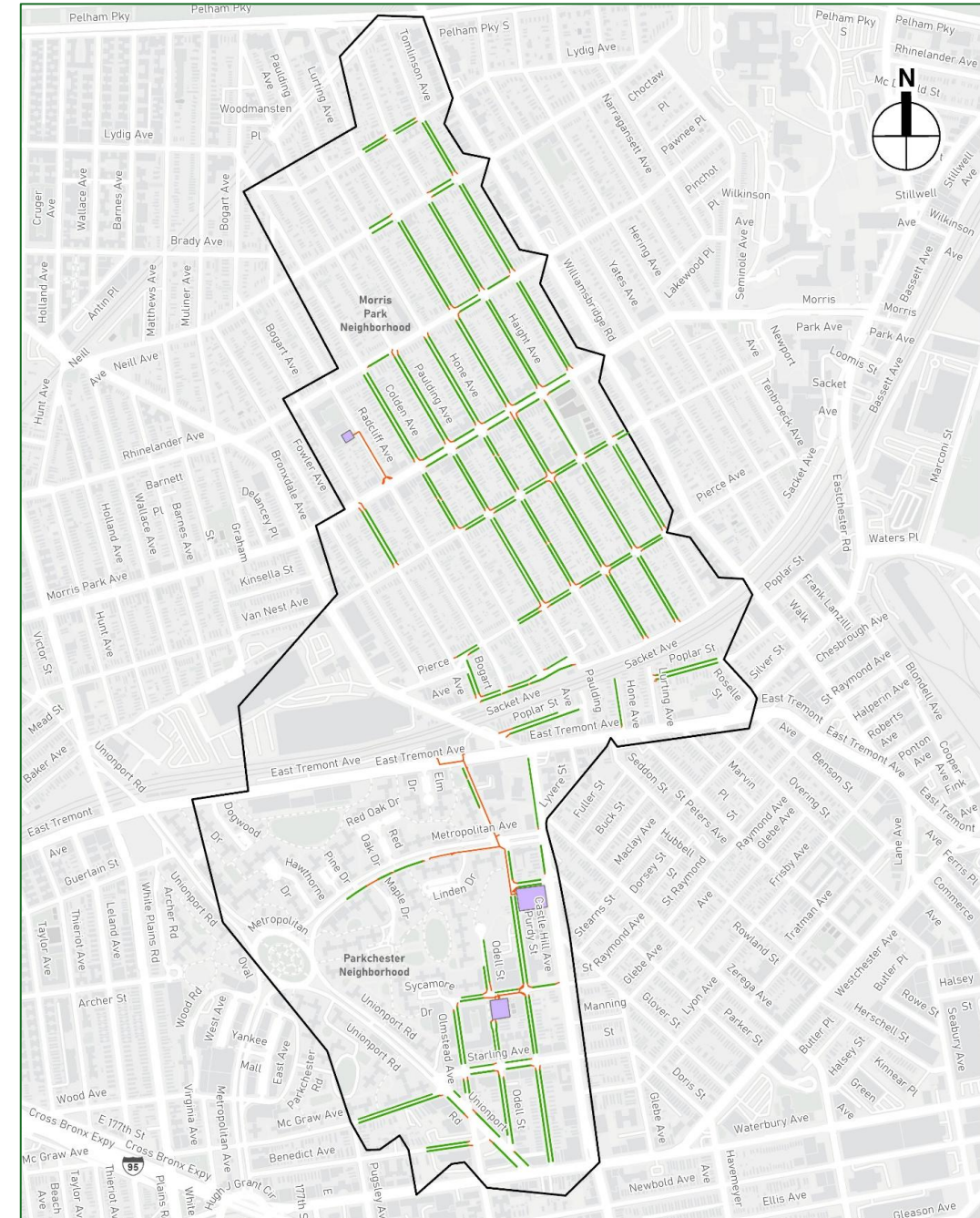
Cloudburst Management Program

Precast porous concrete panels to infiltrate and store stormwater

Stormwater pipes and additional drains to direct stormwater offsite for temporary storage

Subsurface chambers at sites (e.g., parks and PS083) to temporarily detain stormwater

Over 5 million gallons of water can be stored through these improvements.



Precast Porous Concrete Panels

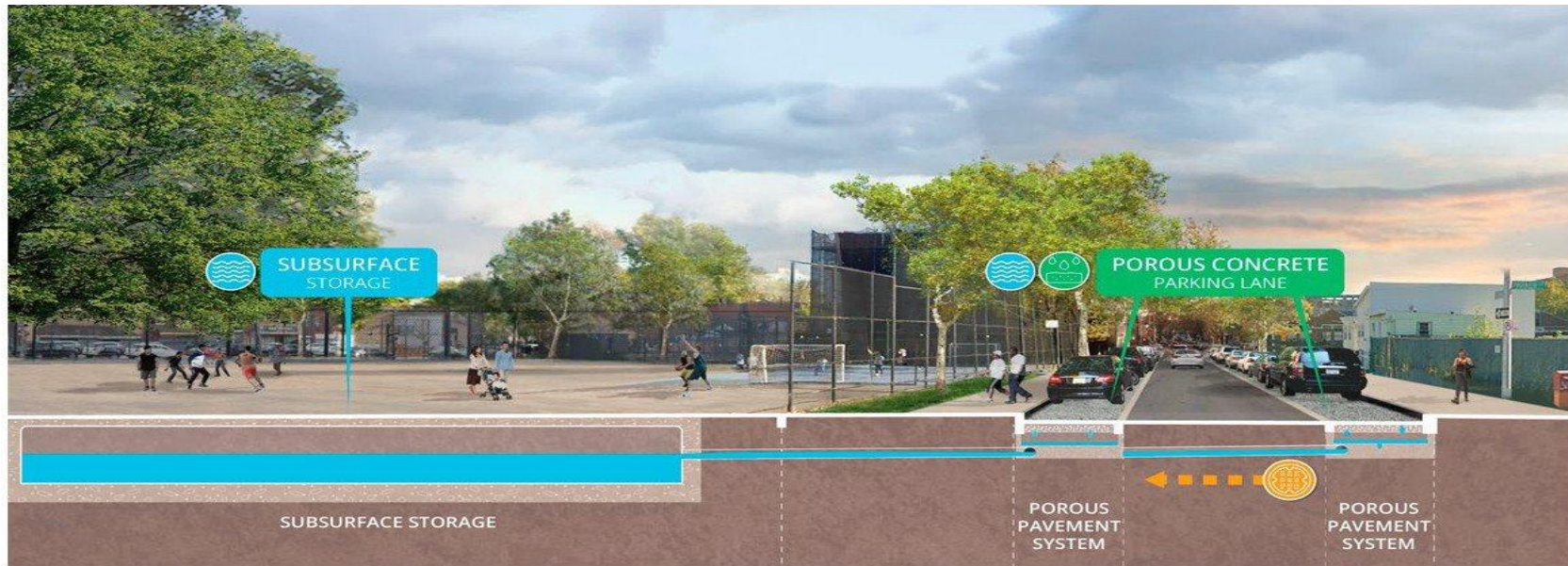


Close-ups of Panel and Installation



**DDC and DEP Commissioners
Demonstrate Porous Pavement
Concrete Panels**

Subsurface Storage



Directing stormwater to storage systems below public spaces

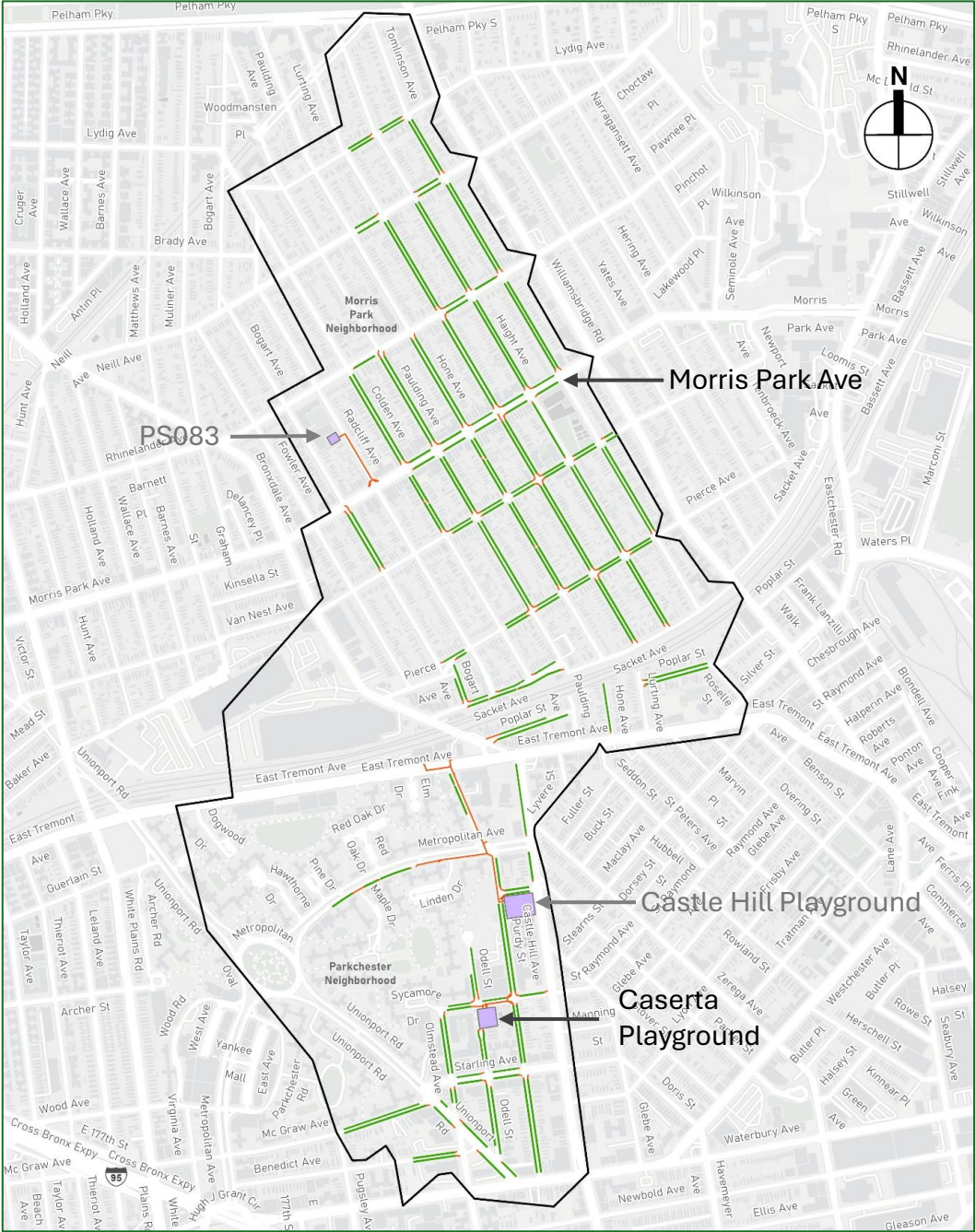


Proposed subsurface storage system

Recap of Visioning Phase: Improving Public Spaces

Morris Park
Morris Park Ave

Parkchester
Caserta Playground



Morris Park: What We Did



PS083 – Donald Hertz

May 16, 2024

Community members were introduced to the project during through public meetings and surveys. No change to the open area at PS083 was identified, so feedback was solicited for improvements along Morris Park Avenue as alternative amenities for the neighborhood.



Hello Neighbor,

By completing this 2-minute survey, you will provide valuable information to help us learn more about your flooding experiences and how we can work together.

Thank you in advance for your time and commitment to creating a safer community for all of us.

1. Do you live, work, or often spend time in the neighborhoods of Parkchester or Morris Park? If so, which areas?
2. If you experience flooding, can you describe where? Areas could be your home, business, roadway or anywhere else you visit in the Morris Park and Parkchester communities. Please provide an address or cross street.
3. If you experience flooding, is it:
 - a) Almost every time it rains
 - b) Mostly during infrequent, severe rainstorms
4. Improvements are planned for the section of Morris Park Avenue between Bronxdale Avenue and Williamsbridge Road and the surrounding residential streets, to reduce flooding and upgrade streetscapes where possible. How frequently do you visit this area?
 - a) Daily
 - b) At least once per week
 - c) At least once per month
 - d) No more than a few times a year
 - e) Very rarely or never
5. If possible in coordination with planned flooding improvements, which of the below features would you enjoy seeing in this area? Please select all that apply.
 - Trees and Shading
 - Lighting
 - Painted Art
 - Seating
 - Bike Racks
 - Learning Station Signs on Climate Change and Large Rain Events
 - Others?
6. Is there anything else you'd like to share with us related to this project? For example: are there specific issues related to flooding that you want to share, types of projects or approaches to managing rainwater that you would like the team to consider, questions about the project timeline or construction?

If you are interested in receiving updates on DEP's Cloudburst Program, please sign up to receive more information and event notices here: [nyc.gov/departments/newsletters](https://www.nyc.gov/departments/newsletters)
Opportunities to learn more, meet with the project team, and help plan our community spaces, then please check the newsletters and here: <https://www.nyc.gov/site/departments/environment/cloudburst.page>

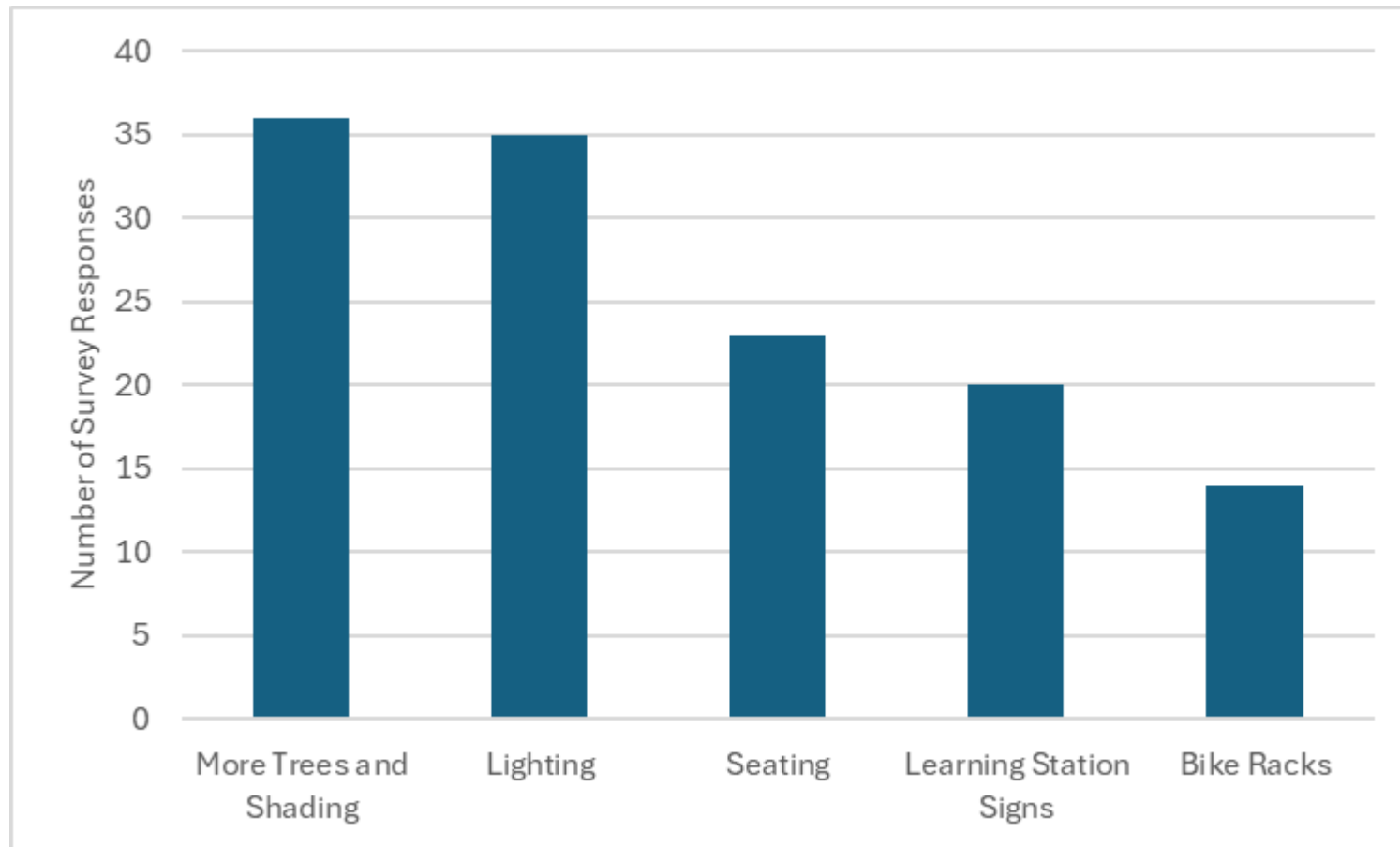
Please scan here to fill out the survey electronically.



Survey

October – December 2024

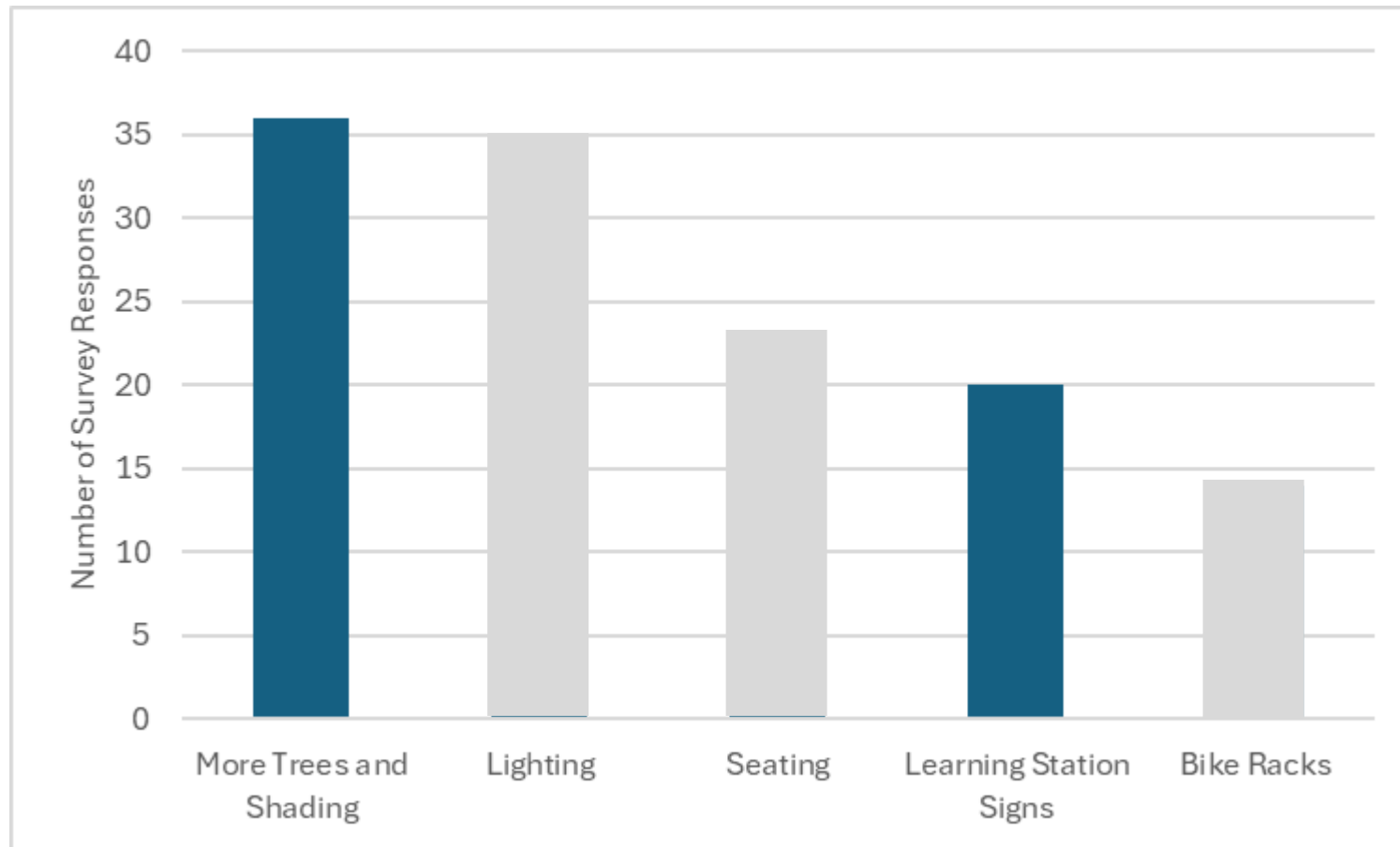
Morris Park: What We Heard



Survey Results

Nearly 60 surveys completed with greatest interest in trees and shading on Morris Park Ave

How Input Was Used



Included

Additional trees and tree guards

Learning stations that explain the stormwater improvements

Not Included

Benches and bike racks due to space and businesses' preference

Lighting will be considered outside of this project

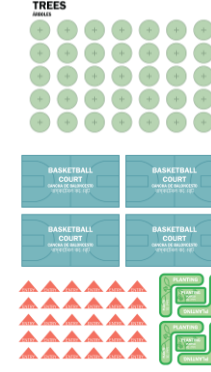
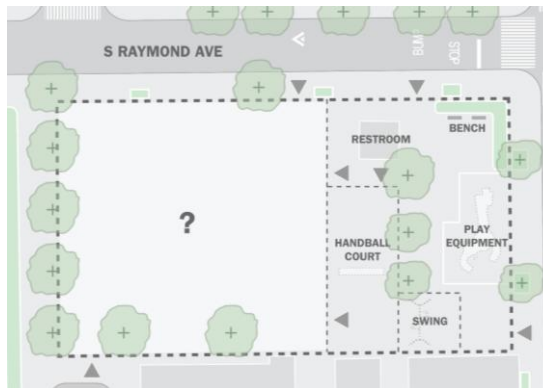
Parkchester: What We Did



Community Visioning Session

September 20, 2024

Community members were invited to use stickers to customize a blank map of Caserta Playground, illustrating their ideas for programming and greenery in the reimagined area.



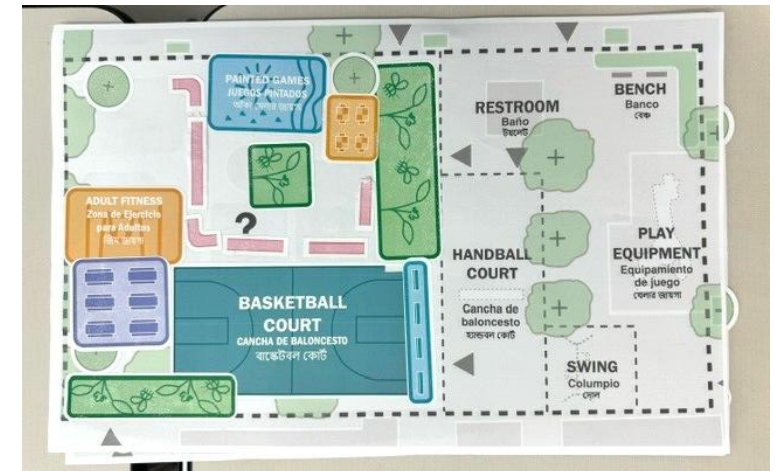
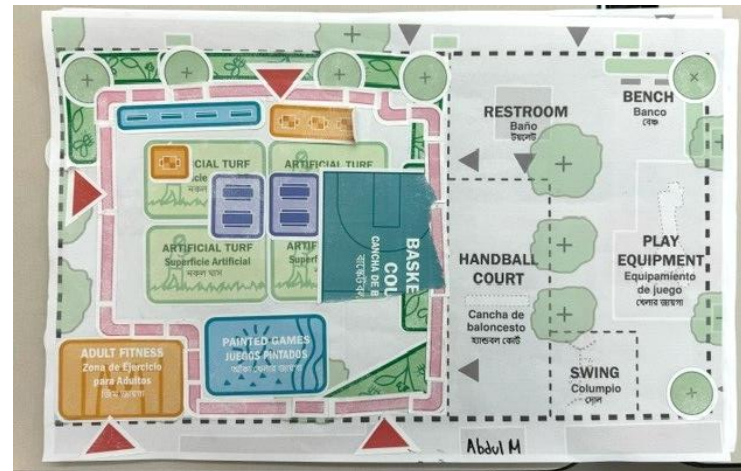
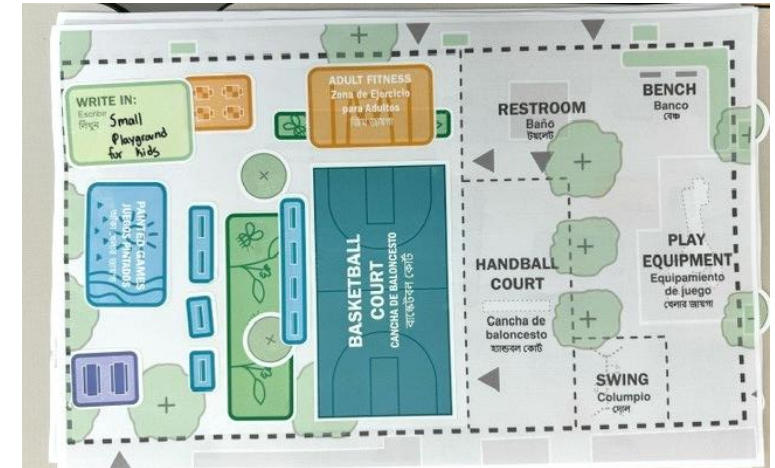
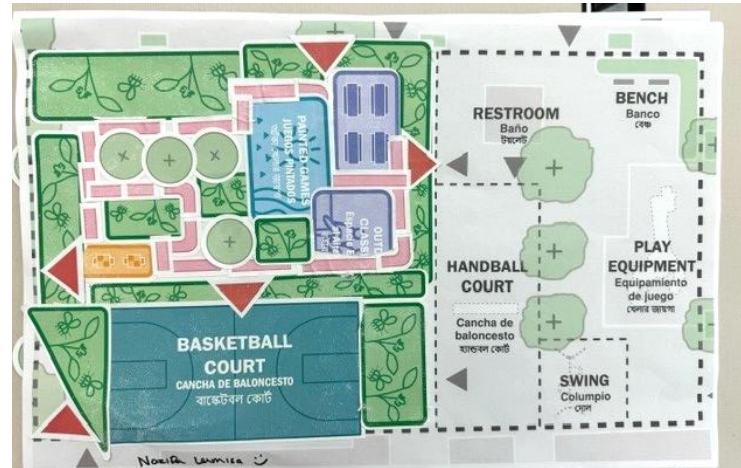
Parkchester: What We Heard

Caserta Playground

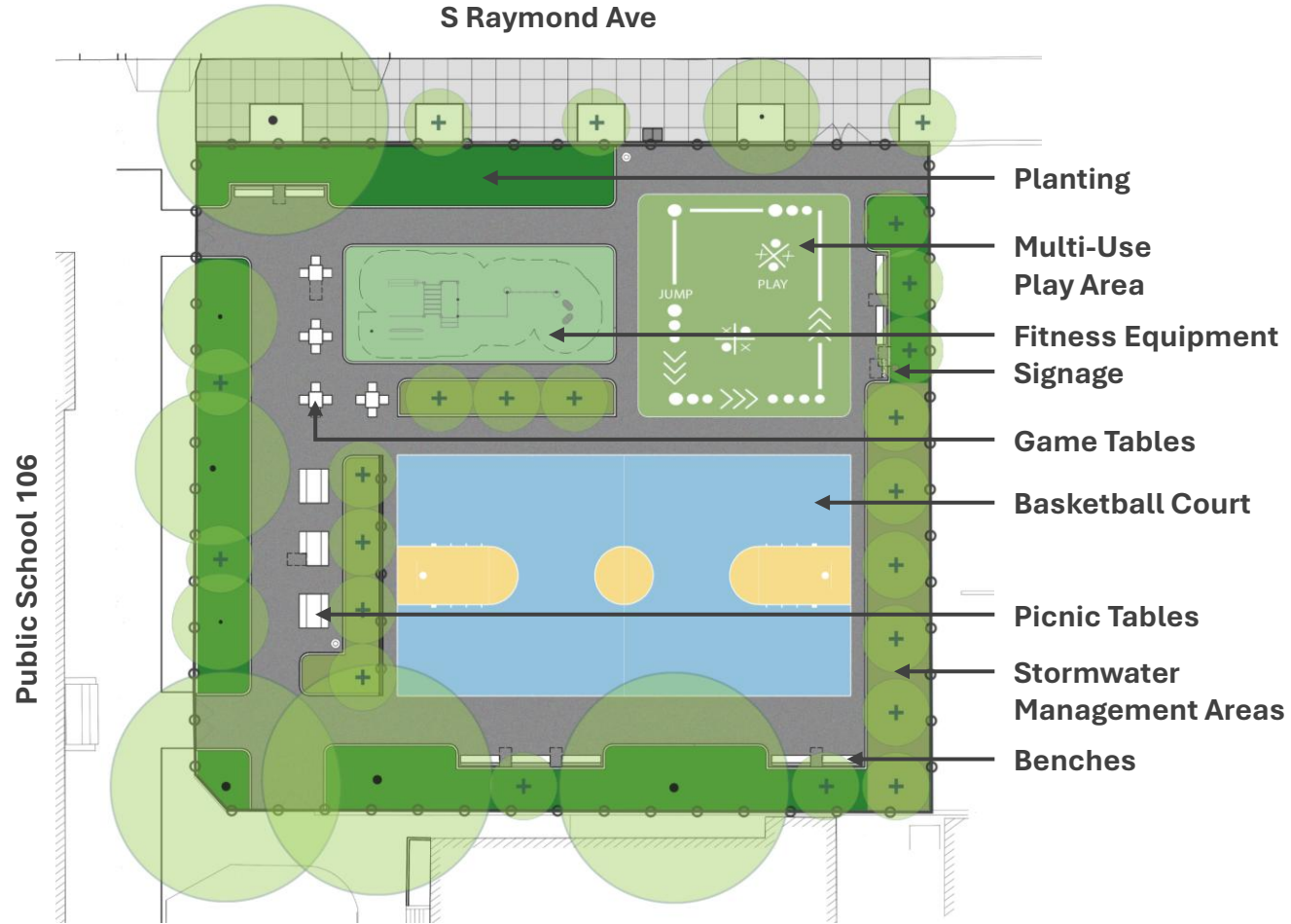
Seating and Planting: There's strong interest in seating under shade and along planting areas, with most preferring planting around the perimeter rather than in the center.

Activity Features: Painted games were the most popular feature, followed by moderate support for adult fitness, outdoor classrooms, artificial turf, rain gardens, and a loop running track.

Sports and Layout Preferences: The basketball court is preferred along the edge, and many were unsure about the best placement for a running track.



Caserta Playground

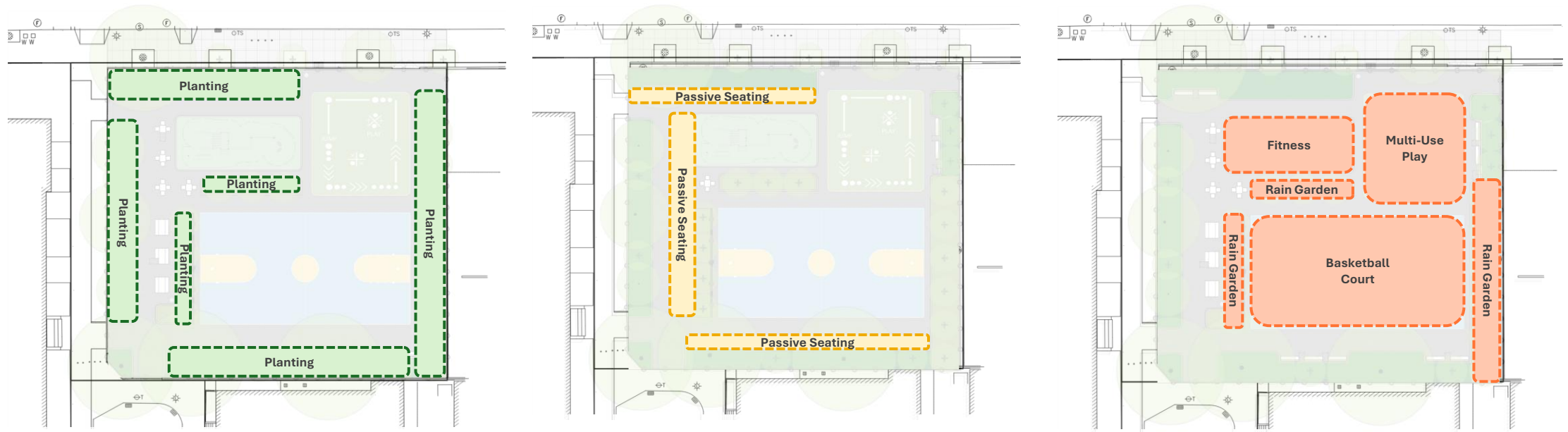


Playground proposed plan



Playground concept renderings

What Input Was Included



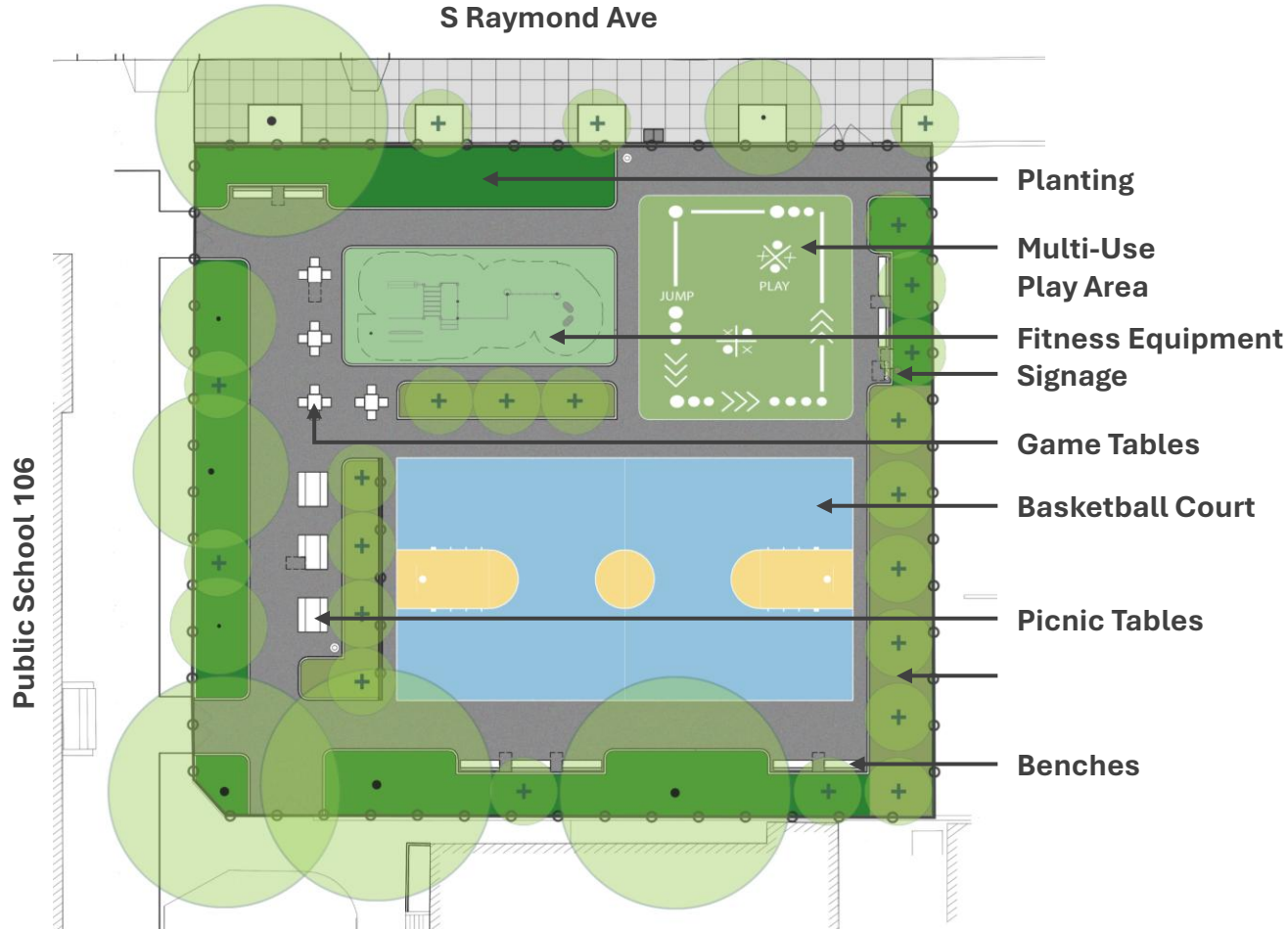
The community would like to see ...

Planting on the perimeter.

Seating under the shade and along the planting areas.

Diverse programs such as painted games, fitness equipment or a rain garden.

What Input Was Not



The community would like to see ...

A loop running track.

Space limitations: The compact size of the park restricted the ability to incorporate a running loop without compromising other key amenities.

Conflicting circulation patterns: Multiple entrances and activity areas led to overlapping foot and recreational traffic, making it hard to create a safe and continuous running path.

Prioritization of multifunctional use: Given the limited space, the design prioritized flexible, multi-use areas to better serve a diverse range of users rather than dedicating significant space to a singular-use running track.

Further Opportunities for Community Input

Signage & Surface Art

The City would like to include a sign near the entrance of the park and art on the surface (ground) tied to the project.

What themes should we consider?

- a. **Education:** How the site infrastructure works to store water and limit risk of flooding
- b. **Historical Hydrology:** How the flow of water in the area has changed over time
- c. **Stories:** Local stories of the community

Example signage from a separate project



Surface Art Themes

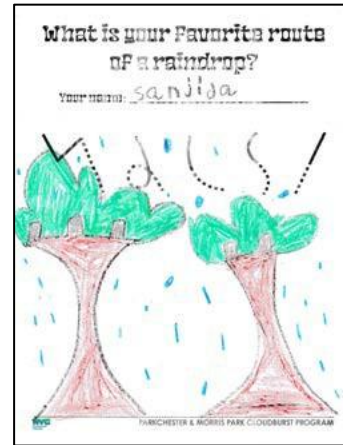
Cloudburst Adventure

How the site infrastructure works to store water and limit risk of flooding

Painted flow paths and games show how rainwater moves from where it lands to where it is absorbed, transferred, and stored, illustrating core cloudburst elements



Example of painted art from a separate project



Artwork from the Parkchester visioning phase

Water Travels

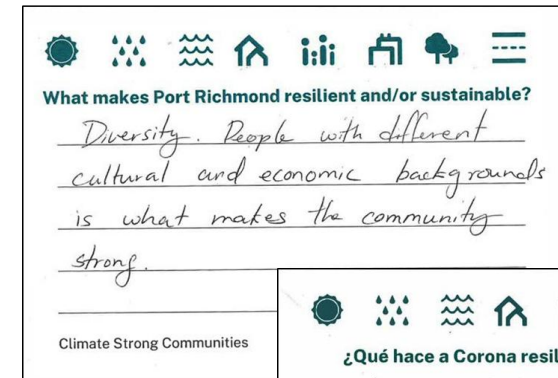
How the flow of water in the area has changed over time

Painted artwork inspired by community drawings will illustrate how the flow of water has changed over time—from naturally soaking into the ground to now being diverted into sewers

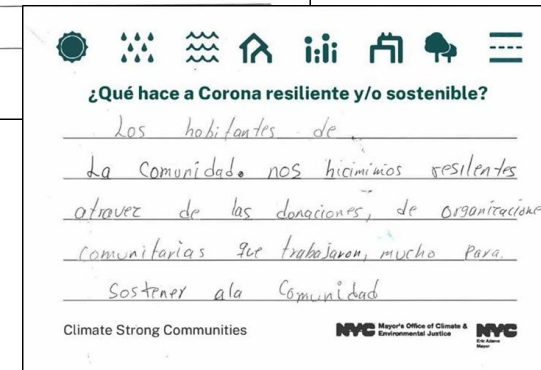
Poetry Ground

Local stories of the community

Quotes from the community that highlight local voices and reflect the resilience of the neighborhood

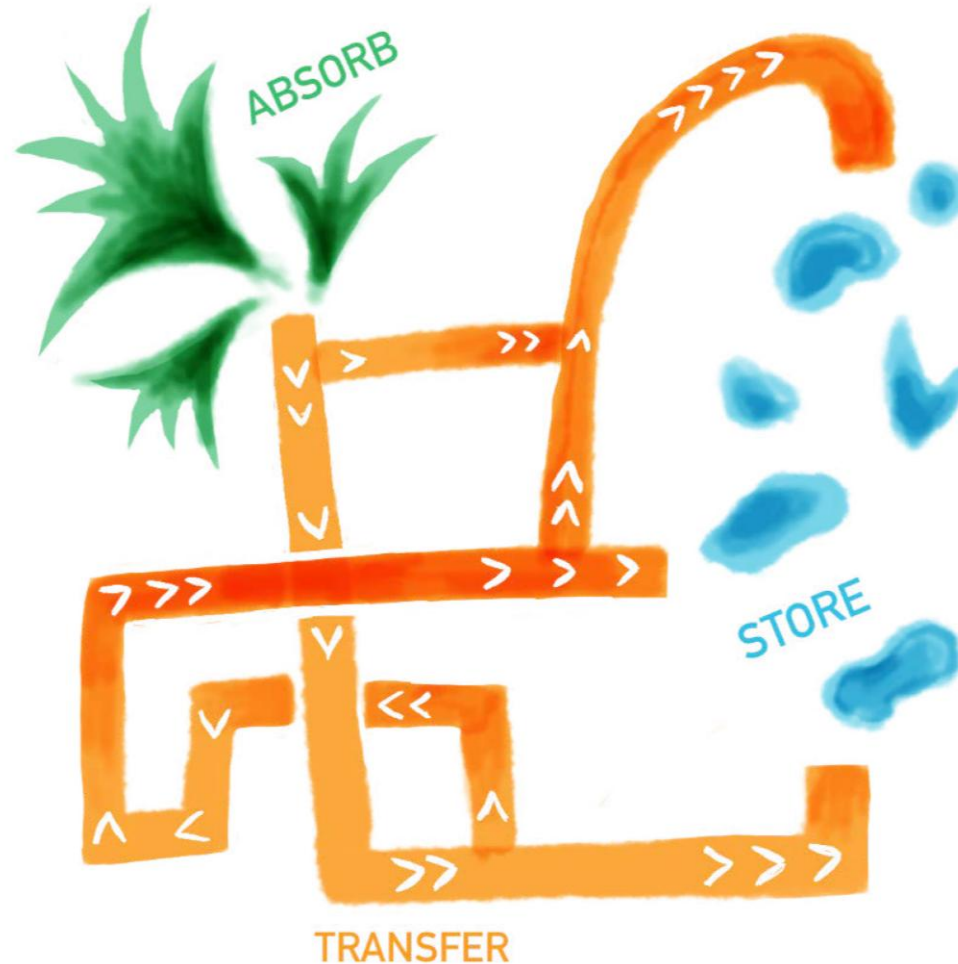


Examples of community quotes from a separate project



Surface Art Concept

Cloudburst Adventure



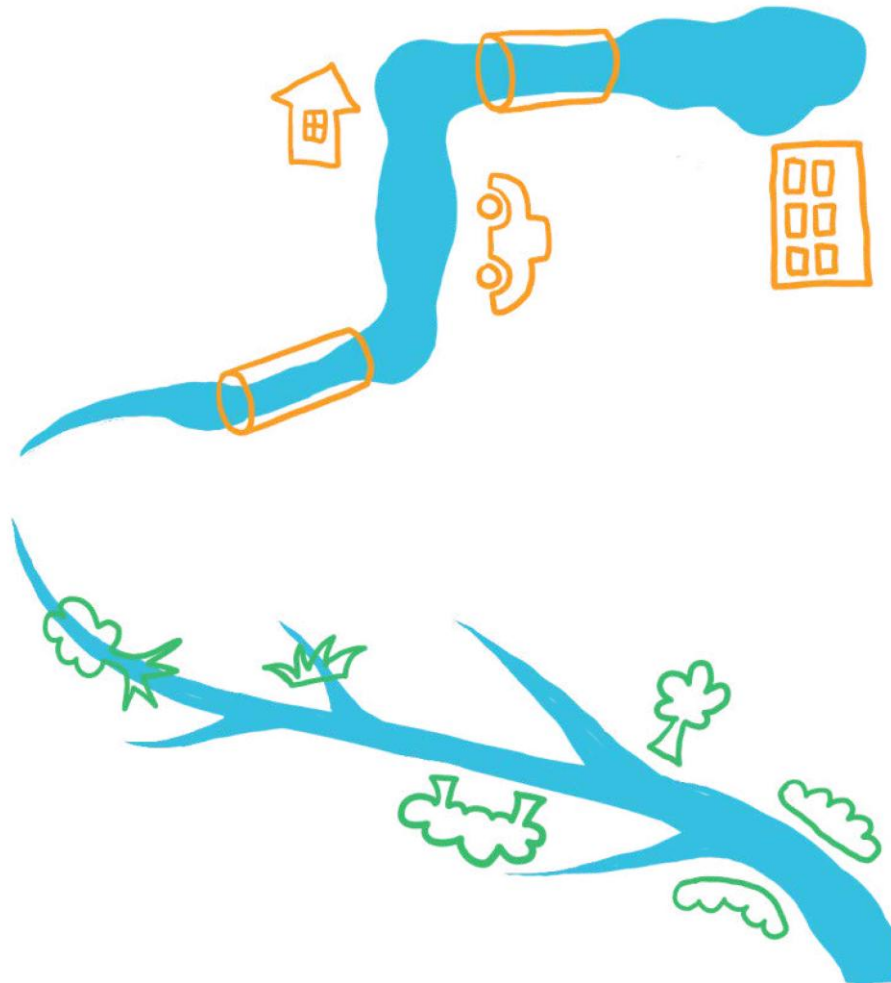
- **Absorb:** Follow playful “roots” to trees, soil, and plants, revealing how rainwater soaks into pervious surfaces.
- **Transfer:** Arrows and graphics show water racing toward areas where it is collected and managed.
- **Store:** Meet "quirky" water creatures that guard the stormwater stored underground.
- **Signage:** Want to learn how the Cloudburst system works in this playground? Follow the Cloudburst Adventure trail to find how rainwater moves, hides, and plays!

Question:

From a scale of 1 (low) to 10 (high) please rate how much you like this concept for the playground

Surface Art Concept

Water Travels



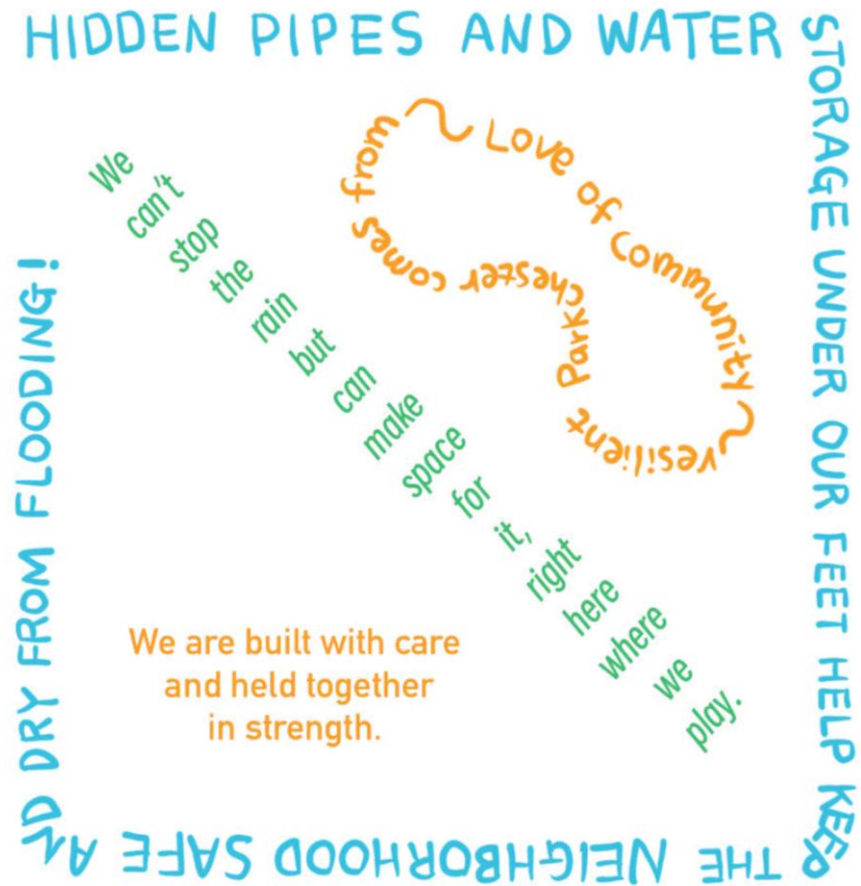
- **Nature:** On this path, rainwater is welcomed by trees, plants, and roots. It flows as small streams and slowly disappears into the ground, filtered and absorbed back into nature.
- **City:** This path shows rain weaving between buildings, houses, and cars and rushing off pavement and into pipes, catch basins, and underground water storage. It moves quickly, collecting more water as it travels!
- **Signage:** Where does your water story begin? Choose your path, Nature or City! Follow the Nature Path to explore how green spaces soak in and care for water. Follow the City Path to see how built environments channel rain into underground systems and storage.

Question:

From a scale of 1 (low) to 10 (high) please rate how much you like this concept for the playground

Surface Art Concept

Poetry Ground



*Local stories from the community will be solicited as part of future engagement activities. Stay tuned for more information.

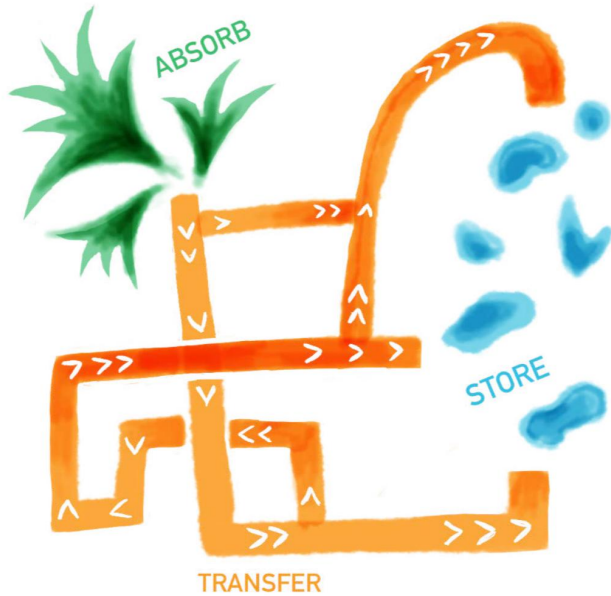
- **Pavement Poetry:** Short lines and quotes from community members appear along walkways and across the playground, telling stories of water, resilience, and care.
- **Sample Lines:** “Hidden pipes and water storage beneath our feet help keep the neighborhood safe and dry from flooding!” “We are built with care and held together in strength.” “We can’t stop the rain but can make space for it, right here where we play.”
- **Signage:** Follow the verses embedded in the playground! Read them as you walk, and discover how this space holds water, protects the neighborhood, and promotes care and resilience.

Question:

From a scale of 1 (low) to 10 (high) please rate how much you like this concept for the playground

Surface Art Concepts

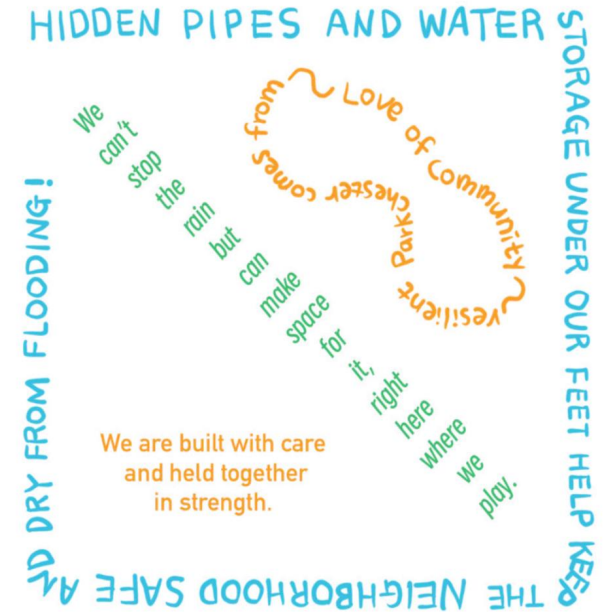
Cloudburst Adventure



Water Travels



Poetry Ground

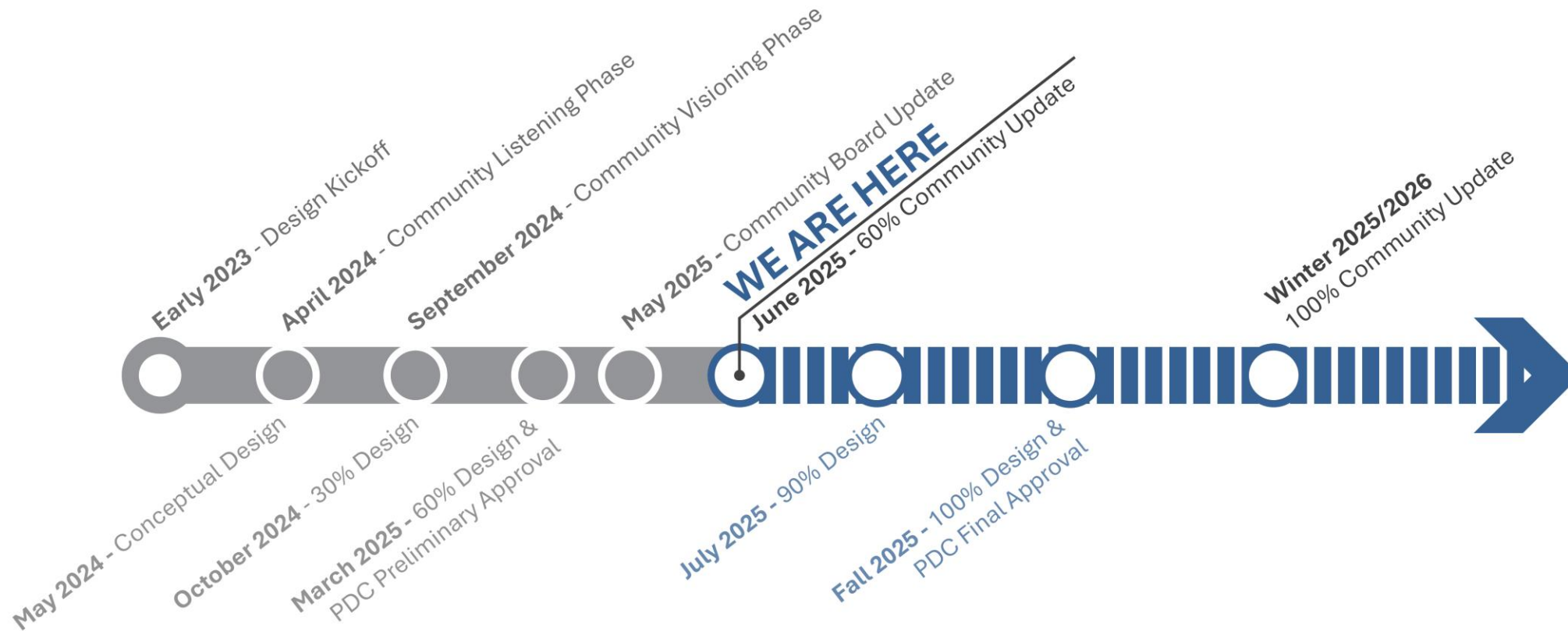


The design may include a combination of concepts.

Questions:

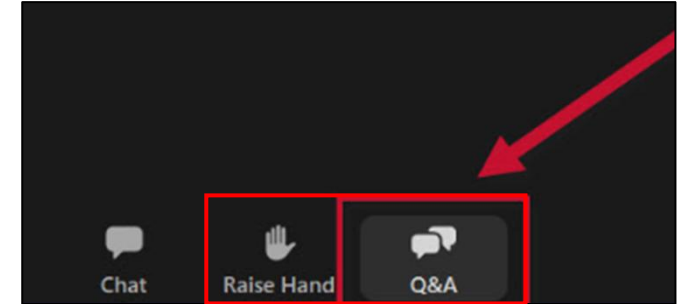
1. Please let us know which of these is your favorite.
2. Please let us know if you have any comments to any of these concepts.

Next Steps



Questions?

Please raise your hand to speak or type your questions in the Q&A tab at the bottom of your screen.



Thank you!

Learn more:



Stay in touch:

