



Polo Grounds Towers

Pneumatic Waste Collection System

Community Engagement
Field Report

March 10, 2023



Project Team

The New York City Housing Authority (NYCHA) Sustainability Department includes the Sustainability, Energy, and Environmental Planning programs teams, which oversee the implementation of NYCHA’s comprehensive Sustainability Agenda as well as innovative pilot projects in areas such as waste, electrification, and green infrastructure.

Navillus Contracting is a major New York-based general contractor that has worked with NYCHA for 15 years on various capital infrastructure projects. Navillus is leading the design-build construction team comprised of Navillus Contracting, Dewberry Engineers Inc., Marvel Architects, Landscape Architects, Urban Designers, PLLC. and Atreo (Pneumatic Waste Collection Systems).

Hester Street is an urban planning, design and development nonprofit that works to ensure neighborhoods are shaped by the people who live in them. We offer planning, design and community development technical assistance to community-based organizations, government and other agencies. Our goal is equitable, sustainable and resilient neighborhoods and cities.



HESTER ST



MARVEL

Acknowledgements

This process would not have been possible without the support of the Polo Grounds residents and volunteers who dedicated their time, energy, and ideas to this project. Thank you to NYCHA Sustainability Programs and Resident Engagement teams, the Polo Grounds Property Management team, and to Navillus and Marvel Architects from the Design-Build team.

Special thanks to the Polo Grounds Resident Tenant Association President Serena Chandler and the TA Board, to Deymis Baquero of Mayor’s Action Plan (MAP) and the Polo Grounds MAP team, and to Maria Rosa and her staff at Police Athletic League (PAL) Community Center at Polo Grounds.

Photographs by NYCHA Photographer Leticia Barboza and Hester Street.

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“The efforts of the office of Resident Engagement and the Tenants Association in educating our residents about proper waste disposal and the pneumatic waste collection system complement each other, and will prove to be a great solution for waste management across our campus – and other NYCHA campuses in the future.”



Polo Grounds Towers Tenant Association President
Serena Chandler

“Making sure that our buildings and grounds are clean and as pest free as possible is one of our top priorities. Pneumatic waste collection allows for more efficient and containerized trash and recycling collection and storage, which fulfills a key area of the HUD Agreement on waste management as well as a key environmental sustainability initiative.”



NYCHA Senior Vice President for Sustainability
Vlada Kenniff



Introduction

In 2024, Polo Grounds Towers will become the first in public housing and the second major residential complex in the country to host a state-of-the-art pneumatic waste collection system to collect both trash and recyclables.

The \$31 million design-build construction project is a bar-raising initiative for the New York City Housing Authority (NYCHA) intending to enhance the quality of life for more than 4,000 residents, improve working conditions for building staff, and save the Authority hundreds of thousands of dollars per year in operating costs. Once completed, the project will upgrade and modernize Polo Grounds' waste collection infrastructure, reduce pests, and make recycling convenient and accessible for its residents.

NYCHA is committed to ensuring that the new system at Polo Grounds is an exemplary pilot demonstration for the future of waste collection on NYCHA campuses throughout the city. This project is a direct response to NYCHA's overarching goals to ensure that all buildings and grounds are clean and pest-free. Priorities to adopt new pest-resistant collection technology, upgrade old infrastructure, and improve and expand recycling – articulated in NYCHA's 2.0 Waste Management Plan (2019), 2020 Sustainability Agenda, and the 2019 U.S. Department of Housing & Urban Development (HUD) Agreement – are addressed through capital initiative.

In June 2022, NYCHA officially gave Notice to Proceed (NTP) to a construction team comprised of Navillus Contracting, Dewberry Engineers, Inc., Marvel Architects, PLLC and Atreo to begin developing a pneumatic waste collection system that would utilize a design-build project delivery method, which streamlines and combines design and construction into one single point of responsibility.

The NYCHA Sustainability team engaged Hester Street to design a 6-month engagement process that involved working closely with Polo Ground Towers' residents to lend their expertise and knowledge of the Polo Grounds community, to support the implementation of the pneumatic waste collection system (eg, the New Trash System).

The following report provides an introduction to the new pneumatic waste collection system and design-build project at Polo Grounds Towers, as well as a summary of the stakeholder engagement process (May-December 2022) designed by Hester Street, and led by the NYCHA Sustainability team in partnership with Polo Grounds residents.

A key feature in this report is the insightful feedback provided by residents who participated in a series of public workshops on the design and functionality of various components of the new system. It also includes key takeaways and recommendations, synthesized from small facilitated group conversations, responses to materials, and large group question and answer sessions.

What is a Pneumatic Waste Collection System?

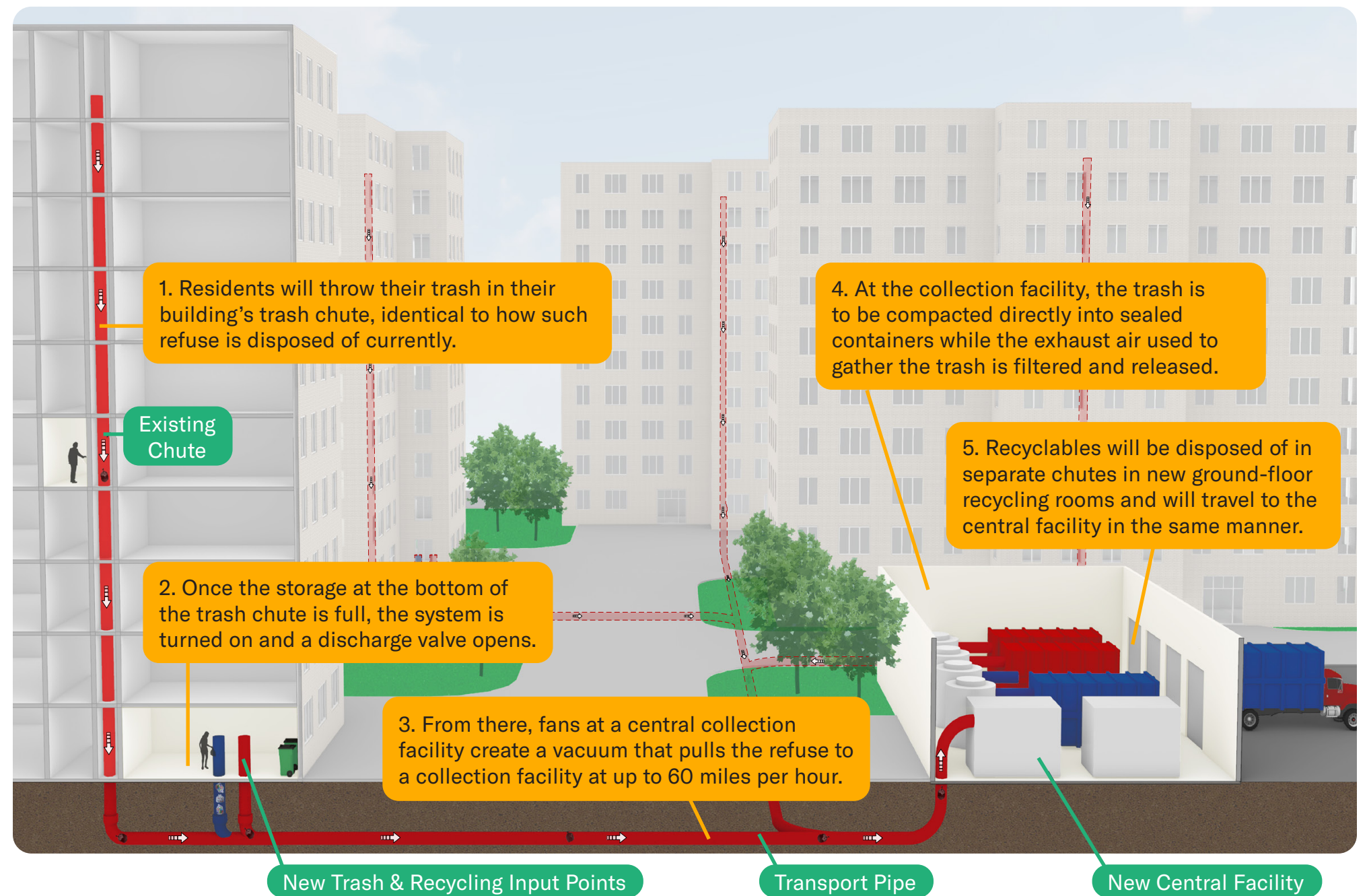
A pneumatic waste collection system uses a powerful vacuum to suck trash from individual buildings through underground pipes to a central collection facility, which can serve buildings from as far as two miles away. The same pipe network can be used to collect separate recycling streams by switching containers.

There are hundreds of installations of pneumatic systems in Europe and Asia. Roosevelt Island has used [a similar version of this technology](#) for decades, which was the only area of New York City to have uninterrupted trash collection during the blizzards of 2010-11 and Superstorm Sandy.

NYCHA will bring the first instance of a pneumatic waste collection system to a public housing authority in the US.

Benefits

- **Improves cleanliness and removes unsightly waste storage** from residential buildings and grounds
- **Reduces stress on residents** from rat and trash issues
- **Increases pedestrian safety** from reduced vehicle traffic within the development
- **Increases resiliency of waste system** to weather events, staffing levels and holidays
- **Increases workplace safety** for staff and **reduces ongoing operating costs** for NYCHA
- **Increases access to recycling** by increasing capacity of development staff to support recycling efforts





Community Engagement

The success and longevity of NYCHA's sustainability goals, articulated in the Authority's 2021 Sustainability Agenda, are greatly dependent on resident engagement. The following provides an overview of that process.

Project Goals

1. **Engage and inform residents** of the New Trash System at Polo Grounds through a series of facilitated workshops, outreach, and interactive educational materials
2. **Gather input from residents** on waste collection practices, culture surrounding waste collection, design and functionality of various features of the installation
3. **Create a model** for transparent and collaborative engagement to motivate residents to support successful implementation of waste collection and sustainability initiatives at NYCHA



Phases of Work

Phase I: Research & Discovery

Learn about the pneumatic system
 Visit Roosevelt Island to meet staff who operate the pneumatic collection facility and residential buildings served by the system

Meet with Polo Grounds stakeholders
 Tenant Association, community leaders, construction managers, architects, and designers

Phase II: Project Planning

Define work plan, timeline, milestones reflecting NYCHA's engagement strategy and project goals
 Hester Street and NYCHA team incorporate Tenant Association feedback into final plan

Phase III: Resident Workshops

Outreach to incentivize residents attendance

- Create a recognizable design identity
- Distribute outreach materials (printed flyers/posters, e-blasts) with the Polo Grounds Tenant Association (TA) Board, Building Captains, Floor Captains, and Mayor's Action Plan (MAP) team
- Table at Polo Grounds events to continue outreach

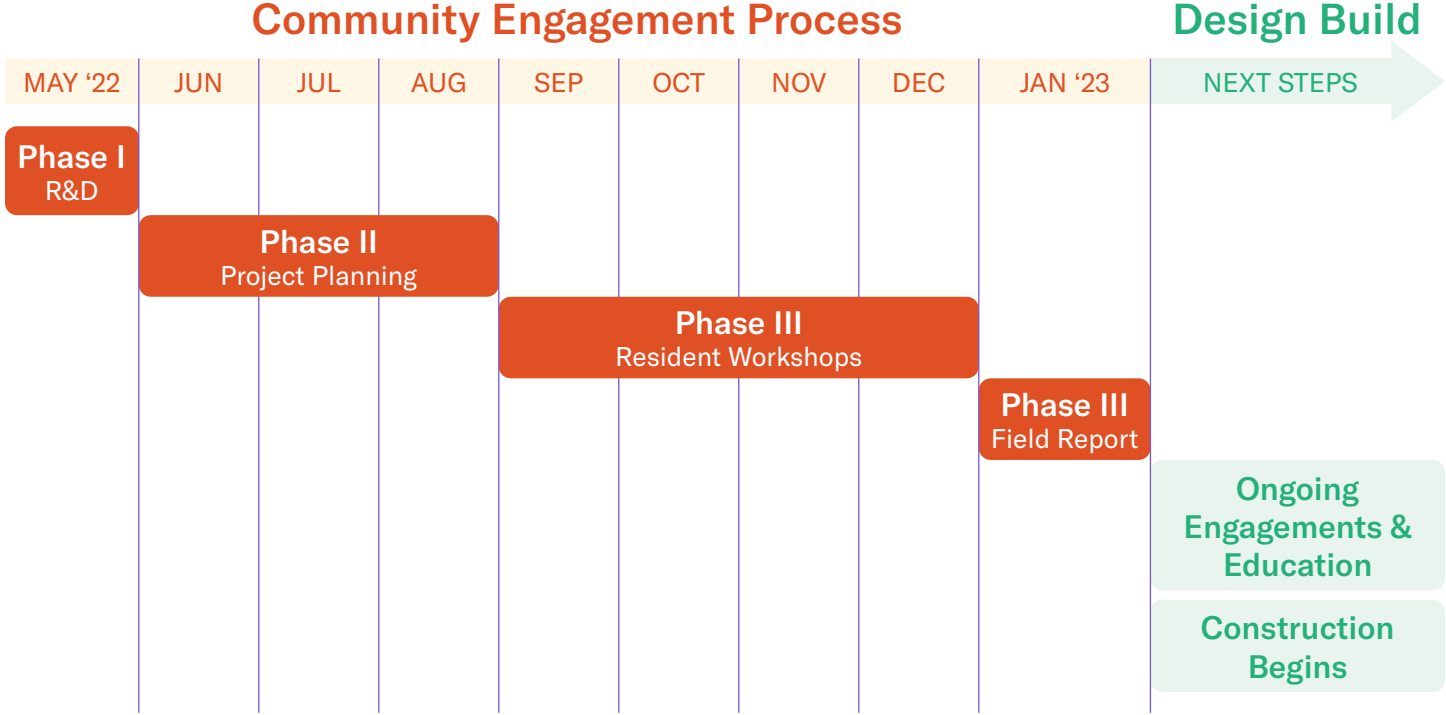
Design and facilitate a resident workshop series

- Identify current issues and supply design solutions
- Educate residents to be experts in the pneumatic system
- Create a feedback loop with residents responding to post-workshop surveys, What We Heard summaries, and FAQ sheets

Phase IV: Report on Community Engagement

Summarize engagement process and synthesize key takeaways from resident feedback
Identify next steps

Timeline



Roosevelt Island Site Visit

Approach

Inclusive and Responsive

Using the [NYCHA Connected Communities Guidebook](#) as a reference, the project teams sought to partner with key stakeholders from the start and to tailor the workshops to unpack the current issues and needs of residents while promoting dialogue.

The engagement approach started by identifying an active group of resident leaders (Polo Grounds TA Board President, Serena Chandler, her board and a diverse groups of residents who lead community projects as part of the Mayor’s Action Plan (MAP) team). In early planning discussions, these key Polo Grounds stakeholders raised deep concerns over the lack of resident input in many other past construction and infrastructure projects at Polo Grounds over the years. Hester St. and NYCHA worked closely with this group of resident leaders to understand the existing challenges around waste management, and to engage them as key partners in the outreach as well as the design and implementation of the actual workshops. For outreach, we mobilized TA board members, building and floor captains, and youth organizers involved in MAP and Green City Force (GCF) as outreach partners who distributed flyers around the development, within floors and lobbies of their buildings, and tabled at the bi-weekly Harvest Days and other existing community events.

In recognition of the many diverse cultural communities that exist at Polo Grounds, materials were produced in five different languages and interpreters for Spanish, French, Cantonese and Mandarin were in attendance at the workshops. All workshops took place at the centrally located Police Academy League (PAL) Community Center.

COMMUNITY ENGAGEMENT CHECKLIST

- Research the neighborhood and its history
- Conduct asset mapping and in-depth analysis
- Provide consistent and trained facilitation
- Engage community leaders
- Host multiple-format listening and workshop sessions
- Establish a consistent feedback loop with residents
- Document residents' needs, ideas, and proposals
- Develop a shared vision and establish goals
- Finalize and communicate project vision
- Evaluate projected goals

[NYCHA Connected Communities Guidebook](#)

Interactive and Innovative

Engagements used a range of interactive media to help provide residents with an in-depth understanding of the project. Marvel Architects created a physical model of the facilities that participants could walk around and study, to help visualize the space. The Navillus team installed a full-size mock-up of the hopper door for participants to test out. The Hester Street team also preserved workshop momentum with interactive games such as raffles and bingo, all the ultimate goal of developing participants’ commitment to the process.



Hopper Door full size mock-up

Trusting and Building Relationships

Although we sought a large audience by promoting the workshops through flyering, tabling, and email blasts, we found that workshops were attended by a core group of dedicated residents. Workshops built on the collective knowledge generated by each previous session. Each session provided feedback loops that encouraged deeper exploration and conversation, by summarizing questions and answers in a FAQ sheet that got updated throughout the engagements, distributing a What We Heard summary of points raised in the previous workshop to catch up those who could not attend, and we wrapped up small group table conversations with a full group share-back session to build a shared understanding of the points raised by residents.

Hester Street collaborated with residents on outreach and, in an effort to be respectful of people’s time and recognize the value of their expertise, partners were compensated for their time.



	B	I	N	G	O
Spring 2023	The recycling rooms	The Terminal Building	True	Rats	
Saturday, December 10th, 10-11:30 AM	Three times a week	Key fobs	Ms. Serena Chandler	Two hour-rated fire-resistant covering	
Through the hopper door on our floor	Fall 2024	FREE	Educating other residents	The ground floor of each building	
Juliette Spertus at juliette.spertus@nycha.nyc.gov	One on every floor	In our building's recycling room	Heat sensors	Automatically multiple times a day	
Plastic, metal, paper, and cardboard	13-gallon	Input from the residents and staff	Us, the residents!	Pressurized air	

Game prizes, childcare, and language interpretation were available for residents at all four workshops.

Workshops

Workshop 1

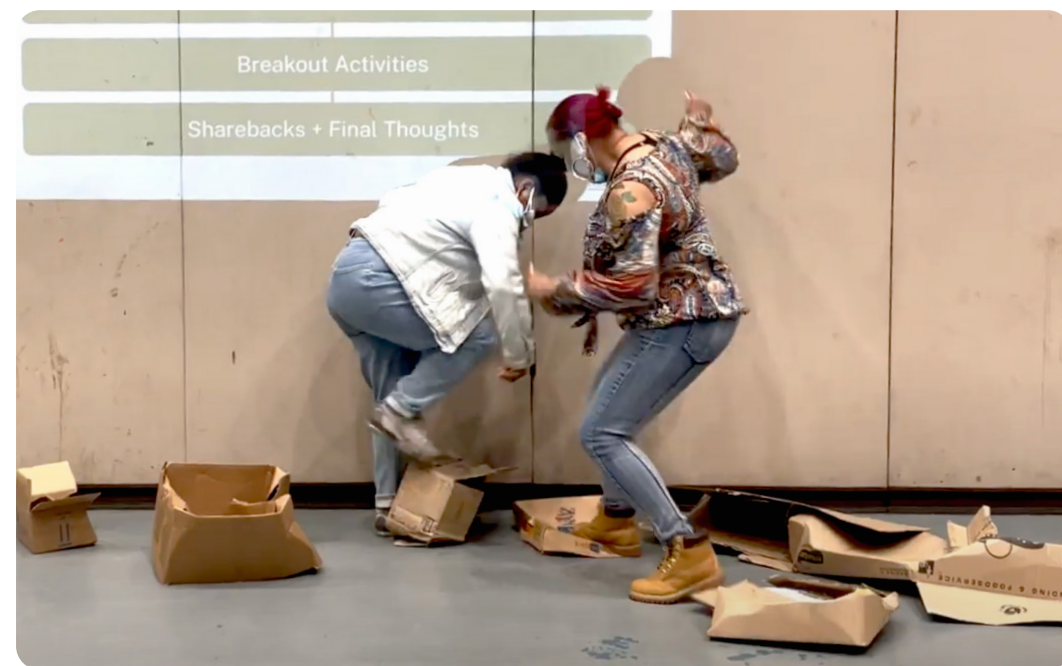
September 21

Purpose: Identify issues with current waste collection system and introduce the New Trash System

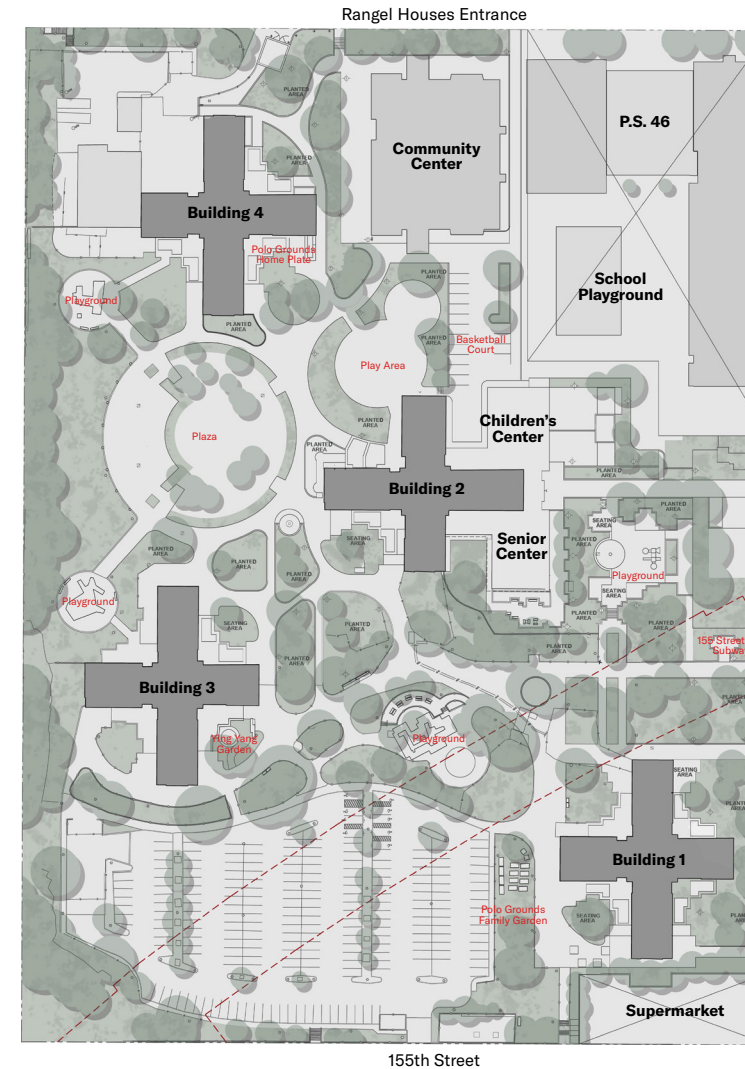
As the kickoff workshop in the series, this session opened up with introductions to the various team members involved in the design and construction of the design-build project. Marvel Architects provided an overview of the pneumatic waster collection system itself. Activities included participants marking their favorite places on the Polo Grounds campus, a performative contest involving two volunteers testing their cardboard box break-down skills, and both open forum and facilitated breakout conversations to identify concerns and questions about the pneumatic system, which was included in a Frequently Asked Questions sheet distributed at subsequent workshops.

Key Takeaways

- **Safety concerns** such as misuse of building trash chutes and recycling rooms and fire safety
- **Need for accountability** among neighbors to use the system correctly
- **Interest in ensuring accessibility** throughout the system, and better signage to minimize confusion around uses
- **Questions** about construction timeline, jobs for NYCHA residents, where bulk items would be stored, and whether construction would engender more pests



Workshop 1 started with an icebreaker activity that tested residents' cardboard box break-down skills.



New Trash System / Nouveau système de déchets / 新建垃圾处理系统
 Nuevo sistema de basura / 新建垃圾处理系统
 Polo Grounds Towers

What is your favorite place at Polo Grounds?

Quel est votre endroit préféré à Polo Grounds?
 请列出在Polo Grounds内您最喜欢的地方。
 ¿Cuál es su lugar favorito en el Polo Grounds?
 请列出在Polo Grounds内您最喜欢的地方。

Take a circle sticker below and place it on your favorite place.

Prenez un autocollant circulaire ci-dessous et placez-le sur votre endroit préféré.
 请把圆形贴纸贴在地图中您最喜欢的地方。
 Coge una de las estampas circulares que aparecen a continuación y colócala en tu lugar favorito.
 请把圆形贴纸贴在地图中您最喜欢的地方。

Is your favorite place not shown on the map? Write it down on a sticky note and place it on the map!

Votre endroit préféré n'est pas connu sur la carte? Écrivez-le sur un post-it et placez-le sur la carte!
 如果您喜欢的地方在地图上并未被标出，请把该处写在便签贴上并贴在地图上。
 ¿No conoces tu lugar favorito en el mapa? Escribe en una nota adhesiva y colóquelo en el mapa.
 如果您喜欢的地方在地图上并未被标出，请把该处写在便签贴上并贴在地图上。

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Residents marked their favorite places at Polo Grounds and set community agreements for discussion over the workshop series.

Workshop 2

October 18

Purpose: Introduce the new Hopper Door and Terminal Building

The focus of this workshop was to get resident input on the design and functionality of the hopper doors - through interacting with a full-size model of the new Hopper Door - and the terminal building. Hester Street provided display boards with prototype designs for educational signage that would be installed around Polo Grounds and provided a series of prompts for residents to provide feedback on the signage.

Key Takeaways

Hopper Doors

- **Safety concerns** for children and seniors around the hopper door due to its heaviness
- **Importance of clear and visual signage** on the hopper/chutes on allowable items for disposal
- **Strong concern about potential misuse of the chutes** and a recommendation to incentivize use of the right-sized trash bags
- **Positive responses and appreciation** for proposed new hopper doors with larger openings

Terminal Building

- **Questions about reduction of parking spaces** due to siting of the Terminal building, and whether the building would reduce access to natural light for Building 3 residents
- **Concern around system failures** and speed and ease of response and repair from staff
- **Excitement for a proposed new gathering space** outside of the building and the concept of being able to view inside the Terminal building



40+ residents participated in Workshop 2.



Hopper Door mock-up

Workshop 3

November 17

Purpose: Feedback on the Recycling Room Function and Design

In this workshop, participants had the opportunity to interact with a physical model of the Recycling Room and focus solely on the design and safety features of the room. Participants played a bingo game using the “trash facts” generated from the FAQ sheet. This interactive game checked for understanding and provided some fun, including prizes for the winning participants. Breakout table conversations focused on specific design elements of the recycling room, including safety and accessibility features (key fob access, entryway, room management/security) and resident usage (determining what items residents recycle (now and in the future), optimal signage (including placement, content, design, etc.)

Key Takeaways

- **Lack of consensus** around recycling room features, but workshop launched an important dialogue
- **Education during and after construction** is needed to prepare residents to use the new room
- **A phased approach to opening the recycling room** could allow property management to proactively address safety and security concerns
- **Signage should be clear, visual, and specific**, showing acceptable items for disposal and which bins and chutes accept each type of item
- **The physical model is critical to understanding the layout** of the building lobby with the new Recycling Room installed
- **Interest in developing creative solutions to encouraging resident behavior change** around waste and recycling



Physical model showing resident and staff facing areas of the recycling room. Resident area (with green floor) shows hopper doors for system and bins for other materials.



Resident indicating entrance to recycling room opposite elevators in lobby.

Workshop 4

December 10

Purpose: Explore educational installations for Polo Grounds community

The final workshop used the synthesis of resident input from the previous 3 workshops to create a mock-up of a proposed “Educational Installation” that was requested by residents to inform other Polo Grounds residents, many of whom did not attend these focused workshops. The installation would cover key information about the new system and any impacts to current waster collection practices, what to expect during and after construction, and how to best use the new system. The workshop space was laid out like an exhibit with the proposed installation signage and mock-up images on one wall. Participants were encouraged to view and respond to each of the 3 stations: Hopper Station, Recycling Room, and Terminal Building in small groups. Participants provided feedback on signage clarity and information, and whether images and installations were instructive enough to help residents understand and prepare for the new pneumatic waste collection system.

Key Takeaways

- **Imagery should be relatable:** include photos of Polo Grounds residents in the renderings, customized to each building
- **Display images of finished recycling room during construction**
- **Billboards announcing construction** should be placed at key places around the campus
- **Reaching residents in smaller groups is important:** Either building or floor-level meetings should regularly happen to discuss the current status, issues, and ideas for construction
- **Request for clear, timely, and consistent communication** of construction and other operational updates



Residents interacted with large-scale Educational Installations, displayed on the wall in three stations



What We Heard

Broad Input

- Excitement for the New Trash System, and the possibility for new recycling methods**
 - Strong support for and interest in establishing a new **Recycling Room** in each of the buildings in the prospect of promoting better waster collection practices, accountability and systematically adding composting, textile recycling, and e-waste recycling
 - Overall positive resident response to the new trash management system and the pressing need for major upgrades to promote cleaner facilities and grounds: **“Esta es una buena idea de la basura.”**
- Concern for pests, fire, and general safety issues at all levels of the system**
 - Residents have a general concern for pests being introduced into the building as a result of construction activity and digging up grounds for installation of underground chute system
 - Concerns about fireproofing of pneumatic system due to chronic issues with fires in the trash chutes
 - Establishing the right security and locking system for recycling rooms, while also keeping rooms accessible for residents: **“If we lock the Room for the night, what happens if I need to recycle something?”**
- Questions of ADA and language accessibility throughout the New Trash System**
 - Many Polo Grounds residents require ADA accommodations; repeated requests were made for the design to be ADA accessible.
- Demand for transparency, accountability, and further education of the New Trash System**
 - Residents requested a way to continue learning about the New Trash System, and if there could be a web portal and contact to follow the construction process and ask outstanding questions: **“Some of my concerns are the residents that don’t come to the workshops. How can we get them more informed about the new waste system?”**

5. Ideas on signage design and implementation around Polo Grounds

- Ensure that signage is installed at multiple sites around campus outside of each building and in common gathering spaces
- Residents felt that all signage should use direct and accessible language and be highly visual, colorful, and translated in all appropriate languages: **“I am grateful to be accommodated and educated.”**

6. Love for Polo Grounds, its people, its culture, and specific places within it

- There was no shortage of love for Polo Grounds, with some of their favorite places being the Senior Center, the Ying Yang Garden, and the Plaza: **“Business and cultural moments come out of Polo Grounds everyday, and that needs to be involved in the design, construction, and implementation of the New Trash System”**



60 residents of Polo Grounds Towers were engaged over the course of the workshop series.



Recommendations

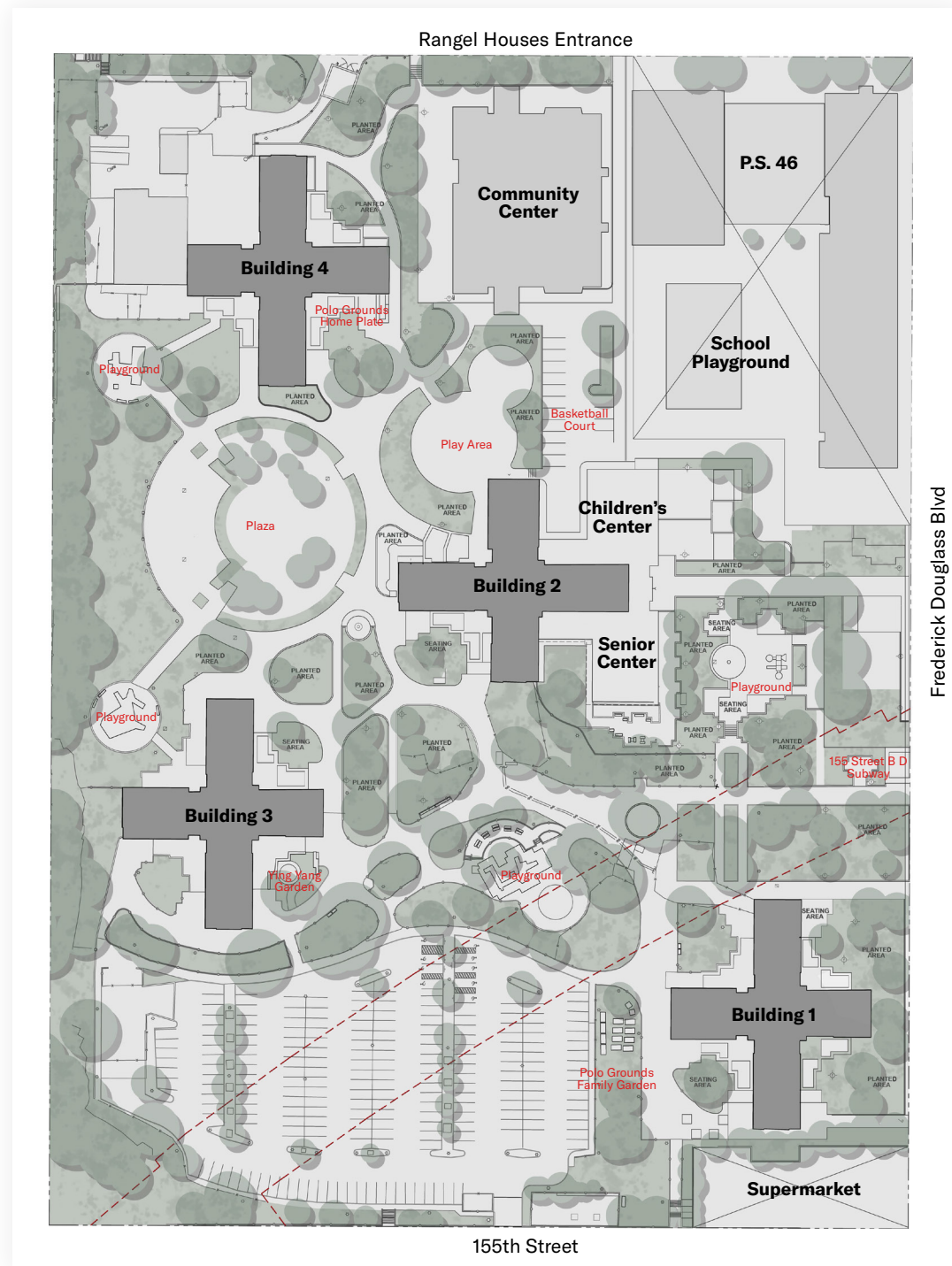
One of the biggest takeaways from the engagement process was **the importance of establishing clear next steps** to ensure that the relationships developed with Polo Grounds Residents continued during and beyond the construction phase.

Here are some recommendations put forth by residents, Hester Street and NYCHA Sustainability around what steps can be taken to ensure the successful implementation of the New Trash System.

1. **Continue conversations with Polo Grounds management to incorporate their thoughts and ideas into the design and implementation process**
2. **Establish regular, accessible, and ongoing engagement and educational opportunities for residents and NYCHA Sustainability team throughout the construction process**
 - **Provide QR codes and email contacts** on all educational installations
 - **Post a physical construction timeline** outside of the construction trailer
 - **Schedule regular check-ins** with Tenant Association President and Board on resident feedback
 - **Complete the design and implementation of Educational Installations** initiated in Design-Build engagement workshops
 - **Ensure that the installations are placed in each building lobby and across the campus** in popular common meeting places
 - **Create informational materials** that incorporate guidance provided by the residents and include representation of current residents
 - **Continue to coordinate engagement with NYCHA partners** working at Polo Grounds such as Compost Power and MAP
3. **Set up pages on the NYCHA website providing further information about the project including construction timeline, FAQs, current system status alerts and updates, and how-to-guides on recycling and depositing trash**
4. **NYCHA to incorporate resident education and engagement into new procedures after operation begins**


Appendix

Site Map



Polo Grounds Towers Site Map

Outreach Materials



New Trash Collection System

Nuevo Sistema de Residuos / Nouveau Système de Gestion des Déchets / 新的废物管理制度


Workshop 3: A Vision for a Safer, Cleaner, and Healthier Polo Grounds

Taller 3: Una Visión para un más seguro, limpio y saludable Polo Grounds
Atelier 3: Une Vision plus sûre, propre et sain des Polo Grounds
研讨会3: 一个更安全、更清洁、更宜居的Polo Grounds

Community Center
Thursday, November 17
6 – 7:30 PM

Centro Comunitario, Jueves, 17 de noviembre
Centre Communautaire, Jeudi 17 novembre
社区中心, 11月17日, 星期四

Register here!
¡Inscríbese aquí!
Inscrivez-vous ici!
在此注册!



bit.ly/pgtrashsystem


Dinner! Game prizes! Childcare! Language interpretation!
¡Comida! ¡Premios del juego! ¡Cuidado de Niños! ¡Interpretación de lenguas! / Le diner! Les prix du jeu!
La garde d'enfants! Traduction en langues! / 晚餐! 游戏奖品! 儿童看护! 语言翻译!

Workshop 2: What We Heard

Polo Grounds will be getting a **new, automated system for trash and recycling.**

In Workshop 2, we reviewed ideas for installations that will be placed around the campus by NYCHA, educating all residents on the New Trash System during its construction. We discussed two parts of the system: the Hopper Doors and the Terminal Building. The residents outlined design ideas, functional and safety issues, and overall recommendations.

With informative, inclusive, and accessible installations, **the residents of Polo Grounds will be able to learn how to use the system and be champions for their neighbors.**



Taller 2 / Atelier 2 / 研讨会 2

El Polo Grounds tendrá **un nuevo sistema automatizado para la basura y el reciclaje.** En el Taller 2, revisamos las ideas para las instalaciones que serán colocadas alrededor del campus por NYCHA, educando a todos los residentes sobre el Nuevo Sistema de Basura durante su construcción. Discutimos dos partes del sistema: las puertas de la tolva y el edificio terminal. Los residentes expusieron ideas de diseño, cuestiones funcionales y de seguridad, y recomendaciones generales. Con instalaciones informativas, inclusivas y accesibles, **los residentes de Polo Grounds podrán aprender a utilizar el sistema y ser campeones para sus vecinos.**

Polo Grounds va recevoir **un nouveau système automatisé pour les déchets et le recyclage.** Dans l'atelier 2, nous avons passé en revue des idées d'installations qui seront placées autour du campus par NYCHA, afin d'éduquer tous les résidents sur le nouveau système de poubelles pendant sa construction. Nous avons discuté de deux parties du système : les portes à trémie et le bâtiment du terminal. Les résidents ont exposé des idées de conception, des problèmes de fonctionnalité et de sécurité, ainsi que des recommandations générales. Grâce à des installations informatives, inclusives et accessibles, **les résidents de Polo Grounds pourront apprendre à utiliser le système et devenir des champions pour leurs voisins.**

波罗球场将有一个新的、自动化的垃圾和回收系统。在研讨会2中,我们审查了纽约市住房委员会将在校园周围安装的装置的想法,在新的垃圾系统建设期间对所有居民进行教育。我们讨论了该系统的两个部分:漏斗门和终端大楼。居民们概述了设计理念、功能和安全问题,以及整体建议。通过信息量大、包容性强、无障碍的安装,**Polo Grounds的居民将能够学习如何使用该系统,并成为他们邻居的拥护者。**

Outreach Poster

Engagement Materials – Workshop 1

Hearing about the plans for a new waste system, what possible issues are most important to you?

Choose any of the issues below and provide your thoughts on sticky notes.

Use the "Other" box to identify any other important issues to you.

Safety

Working With a New Trash System

New Terminal Building + Recycling Rooms

Timeline of Construction

Other

Note: the issues above are the top issues identified by a survey conducted during May-July of 2021 by NYCHA Sustainability and NYCHA Community Engagement. This survey engaged 57 residents of Polo Grounds.

problèmes identifiés par JHA Sustainability et NYCHA, 57 résidents de Polo Grounds.

What is your favorite place at Polo Grounds?

Prenez un autocollant circulaire ci-dessous et placez-le sur votre endroit préféré.

Take a circle sticker below and place it on your favorite place.

Is your favorite place not shown on the map? Write it down on a sticky note and place it on the map!

LOGISTICS

Room Set-up Schedule

5:00	35 min	STAFF ARRIVAL + CHECK-IN with HST Lead for assignments (in hallway) Facilitators/Notetakers - provided with name tags + table assignment (Name, NYCHA/HST, Pronouns)
5:35	10 min	NYCHA + HST staff bio break
5:45	15 min	Set up Tables
6:00	5 min	Facilitator/Notetakers settle in at your Table

Table Set-up Diagram	Reference diagram (link) for room/tables set up
Sign-in Table	Sign-in sheet, name-tags, participant consent forms (photography?)
Food + Refreshments Table	Boxed dinners + beverage for pick-up at Food Tables
Small Group Tables (8-10 seats)	Designated language tables (Spanish, Mandarin, Cantonese, French)
Table Materials	Each table should have: <ul style="list-style-type: none"> <input type="checkbox"/> 10 chairs for 6-8 participants + 1-2 facilitator/notetaker (timekeeper) <input type="checkbox"/> Table number cards <input type="checkbox"/> Run of Show/Facilitator Guide (hard copy) <input type="checkbox"/> Activity Board + 8"x10" Maps <input type="checkbox"/> Note-Taking Template (English/Spanish/Chinese/French) <input type="checkbox"/> Laptop if notetaker is taking digital notes <input type="checkbox"/> Supplies: post-its and writing utensils, post-its/stickers
Signage	table numbers, directional signs at entrance for WM workshop
Wrap up	<ol style="list-style-type: none"> 1. Take photos of the boards 2. Collect all notesheet, boards, and bring all table materials to sign-in table for HST staff to pack up 3. Facilitator/notetaker to debrief and jot down any key takeaways from table group

ROLES + TABLE

USING THIS GUIDE

- Talking points in purple

RUN OF SHOW & FACILITATION GUIDE

ARRIVAL (15 min)	<p>Objective: Create a welcoming environment</p> <p>Materials:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sign-in sheet, Nametag, Raffle tickets <input type="checkbox"/> Boxed dinners <input type="checkbox"/> FAVE PLACE BOARD on easel or wall near sign-in table
10 min	<p>Residents Sign-in + Settle in at Tables</p> <p>Utsa/HST + Clyde/NYCHA: 2 Greeters at the "Sign-In" table greet + sign in each participant (sign-in sheets)</p> <ol style="list-style-type: none"> 1. Thank them for taking the time to join the workshop 2. Give them a nametag + a raffle ticket + Photo Release Form 3. Assign (written on Nametag) and direct language participants to the appropriate table: <ul style="list-style-type: none"> o Spanish Speakers Table o Cantonese Speakers Table o Mandarin Speakers Table o French Speakers Table 4. Invite residents to place a dot sticker on Large Polo Grounds Map on their FAVORITE PLACE/SPOT before sitting at their table <p>[Devin/HST: to operate slides/tech support] Cover slide up.</p>
At the Tables:	<p>Facilitators: + Notetakers: Welcome Residents when they arrive at your table. Encourage residents to eat their dinner while participants settle in. If they haven't already, encourage residents to place a sticker on the FAVORITE PLACE/SPOT flipchart at entrance.</p>

	capture your thoughts and recommendations. [Agenda slide]
	But before we get into that, let me pass the mic to my colleague Clyde who's recruited 2 volunteers...
1 min (30-second activity)	<p>Clyde/NYCHA: Ice-breaker Activity: box break-down race (need 2 volunteers)</p> <ul style="list-style-type: none"> • Hi, I'm Clyde with NYCHA...and I'm here to introduce the first ever Polo Grounds Box Breakdown Championship. Thank you ___ & ___ for volunteering! [2 contestants come up to the stage with pre-assembled boxes before them.] • We're going to give them 30 seconds to break down and recycle the following boxes. Let's see how many they can break down. All of you in the room, please make some noise for our 2 volunteers! • On your mark, get set, GO! <i>[Break-down boxes]</i> • Congratulations to the winner ___! You have the honorary title of Polo Grounds Box BreakDown CHAMP <p><i>[Both volunteers get a raffle prize for volunteering.] Hand the mic to Katy...</i></p>
1 min	<p>Katy/NYCHA Community Agreements</p> <ul style="list-style-type: none"> - Hi, I'm Katy...then, review agreements on slide. <p>Announcements + transition to presentation:</p> <ul style="list-style-type: none"> • I'm pleased to announce that we have officially launched the new Polo Grounds Compost Program! To walk the talk, we've set up this Compostable Bin for all of us to use to throw out today's organics. • Also: if you didn't pick up a raffle ticket at the sign-in table, please see Clyde or raise your hand and we'll get you a ticket! • Now, I'd like to turn your attention to Guido Hartry and Esteban Backer, our architects and Kevin Smith construction team lead to give you a quick overview of our plans for this New PG Trash System. <p><i>[hands mic to Guido/Marvel]</i></p>

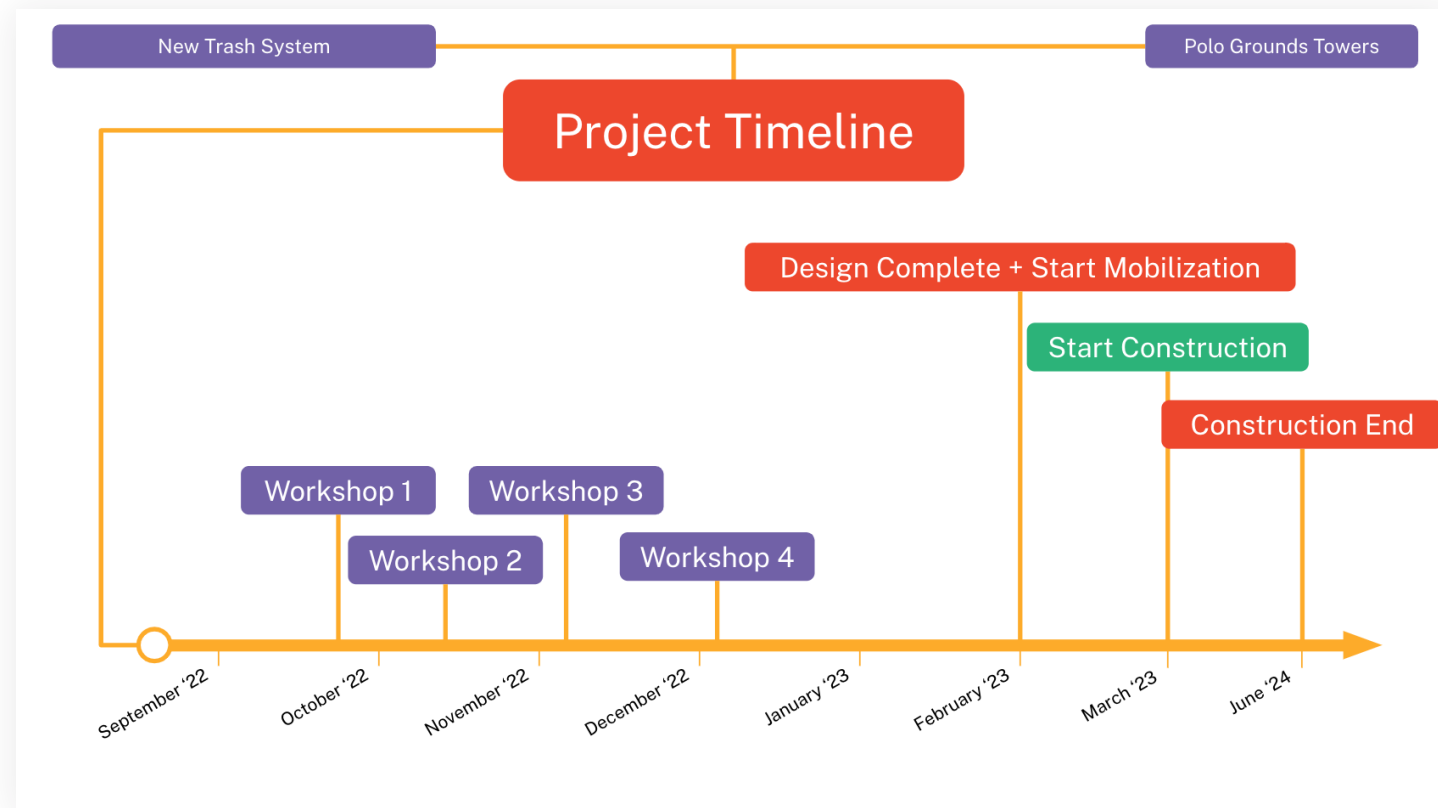
PRESENTATION + OPEN FORUM (20 MIN)

Objective:	<ul style="list-style-type: none"> • Provide an overview of the project and where we're at now • Hear what questions residents have about the project • Ask residents to respond to initial design plans
Need:	<ul style="list-style-type: none"> <input type="checkbox"/> Slide deck projected on wall <input type="checkbox"/> Flip board (for jotting down open forum questions) <input type="checkbox"/> Activity Boards for all (5-7) tables

BREAKOUT TABLE ACTIVITIES (35 MIN)

	<ul style="list-style-type: none"> • Facilitators - take it away! Please introduce yourselves... 	
10 min	<p>Activity 1:</p> <p>Devin: to operate Deck and be time-checker</p> <p>FACILITATOR: Introduce yourself and your role. Ask people to introduce themselves (name + pronouns) and what building they reside in.</p> <p>TABLE BOARDS: You were invited to share your favorite place/spot at PG. What did you pick and why?</p> <p>Map</p> <ul style="list-style-type: none"> • Please place a color dot on that site - and tell us about that space • Please feel free to vocalize these and/or write them down on a post-it and put them on the map (8.5 x 11) • We'd be happy to help write them down as you share them with the group too. 	<p>FACILITATORS/ Post-it note-taker:</p> <p>Juliette Katy Clyde Devin Utsa Lillian Spanish French Cantonese Mandarin</p>
20 min	<p>Activity 2:</p> <p>FACILITATOR: Hearing about the plans for a new waste system, what possible issues are most important to you?</p> <ul style="list-style-type: none"> • Place a post-it on those options and explain why. <p>Choose any of the issues below and provide your thoughts on sticky notes:</p> <ul style="list-style-type: none"> • Safety • Working With a New Trash System • New Terminal Building + Recycling Room • Timeline of Construction • Other 	<p>FACILITATORS/ Issues Board:</p> <p>Juliette/french Katy Clyde Devin Utsa Lillian Spanish - Guido/ Esteban Cantonese Mandarin</p>
5 min	<p>Wrap up of Breakout Discussion</p> <p>FACILITATOR:</p> <ul style="list-style-type: none"> • We're about to wrap up our breakout discussion so I wanted to see if anyone wants to volunteer to share 1 highlight or takeaway from our conversation. <i>[Identify volunteer]</i> • "And before we move into the full group discussion, are there any questions or final thoughts or themes you want to share before this group breaks up?" <i>[Jot them down on post-it or paper]</i> 	

Engagement Materials – Workshop 1



Slide Deck

Scan this QR code to take our survey and let us know how we did, and how you are feeling after this workshop!

Scannez ce code QR pour répondre à notre enquête et dites-nous comment nous avons fait et comment vous vous sentez après cet atelier!

请扫二维码参与我们的问卷调查，欢迎您对我们的讲座和工作提出意见。

Escanea este código QR para responder a nuestra encuesta y háganos saber cómo lo hemos hecho y cómo se siente después de este taller.

請掃二維碼參與我們的問卷調查，歡迎您對我們的講座和工作提出意見。

Polo Grounds New Trash System Feedback Survey: Workshop #1

This survey is for feedback on Workshop #1 for the Polo Grounds New Trash System. Please let us know how the workshop went, and if you have any questions, concerns, or comments to make!

For all general inquiries about this project, please contact Juliette.Spertus@nycha.nyc.gov.

utsa@hesterstreet.org (not shared) [Switch account](#)

* Required

Q5: On a scale from 1 (I have little understanding) to 5 (I understand completely), how well do you understand the new Pneumatic Waste Management System? *

1 2 3 4 5

I have little understanding I understand completely

Q1: What is your name? (If you would rather stay anonymous, ignore this question)

Your answer _____

Q2: What is your email address? *

Your answer _____

Q3: What group do you represent? (choose all that apply)

- Polo Grounds Residents
- Polo Grounds Staff
- Building/Floor Captains at Polo Grounds
- Tenant Association Board at Polo Grounds

Q6: Is there any feedback you would like to give us about Activity 1: Naming your favorite place at Polo Grounds? Write "n/a" if you have no feedback. *

Your answer _____

Q7: Is there any feedback you would like to give us about Activity 2: Expanding on important issues with the new waste system? Write "n/a" if you have no feedback. *

Your answer _____

Q8: Is there anything you are still unsure of when it comes to the Pneumatic Waste Management System?

Your answer _____

Q9: How did you feel about the Workshop itself? (i.e. the food and drinks, language availability, set-up, etc.)

Your answer _____

Post-Workshop Feedback Survey

Engagement Materials – Workshop 2



1 Puerta de la tolva

Objetivos:

1. Continuar con el uso de las puertas de la tolva
2. Enseñar a los residentes cómo encajar las puertas en el nuevo sistema de basura
3. Promover las mejores prácticas para entregar la basura a domicilio
4. Fomentar el aprendizaje de todo el sistema

¿Qué opinas?

1 Hopper Doors

Goals:

1. Continue the use of the hopper doors
2. Teach residents about how the doors fit in the new trash system
3. Promote best practices for delivering trash to doors
4. Encourage learning of the entire system

Thoughts?

3 终端大楼

目标:

1. 介绍新的终端大楼
2. 介绍终端大楼在新垃圾系统中的作用
3. 鼓励对整个系统的学习

请分享一下您的想法。

3 Terminal Building

Goals:

1. Introduce the new Terminal Building
2. Teach residents about how the terminal building fits in the new trash system
3. Encourage learning of the entire system

Thoughts?

Activity Boards

What We Heard: Workshop 1

Trash Collection System NYCHA Polo Grounds

In Workshop 1, residents discussed the installation of a new, automated system for transporting trash and recycling from each building to a central facility, anticipated to be completed by 2024. We answered questions related to safety, cleanliness, and accessibility, and discussed other benefits and challenges. This system will improve quality of life for residents and working conditions for staff, but **all residents need to understand the system for it to work!** The final design will include your input.

Final Synthesized Takeaways

Residents' favorite places are outdoor spaces like The Plaza, the Yin Yang Garden and the Senior Square, and indoor spaces like their individual apartments and the Senior Center.

Questions residents have about the New Trash System include:

- Fire resistance and safety
- Confusion about the recycling rooms and what happens in them
- Misuse of the system at individual parts (i.e. not dropping litter down hopper chute)

Issues residents have brought to light include:

- Safety issues like fire, misuse of the recycling rooms from other people, pests, and bulk item build-up
- Issues with the system include holding other residents accountable for not using the system correctly, the proper placement and inclusion of recyclables, bulk-items, and reusable items, and getting NYCHA management on board with the new system
- Issues with the Terminal Building and Recycling Rooms include accessibility around and within recycling rooms, misuse of recycling rooms, and confusion from educational signage
- Issues with the Timeline of Construction include if there are jobs for NYCHA residents within the construction of this project, as well as a worry for more pests during construction
- Other issues include proper outreach methods being used, the hopper doors being difficult for seniors, and trash/recyclables building up in elevators

Thanks for joining us! RSVP for Workshops 3 and 4 at bit.ly/pgtrashsystem

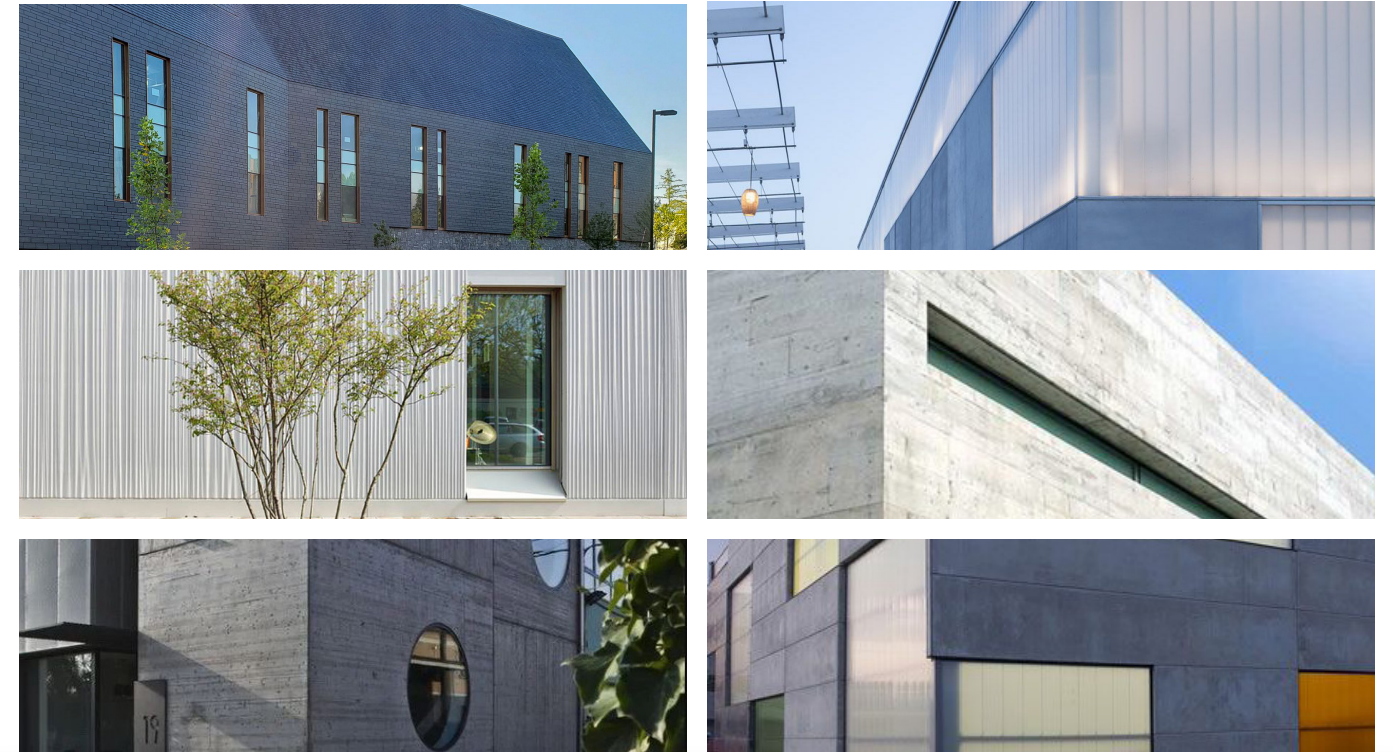
What We Heard

Engagement Materials – Workshop 2

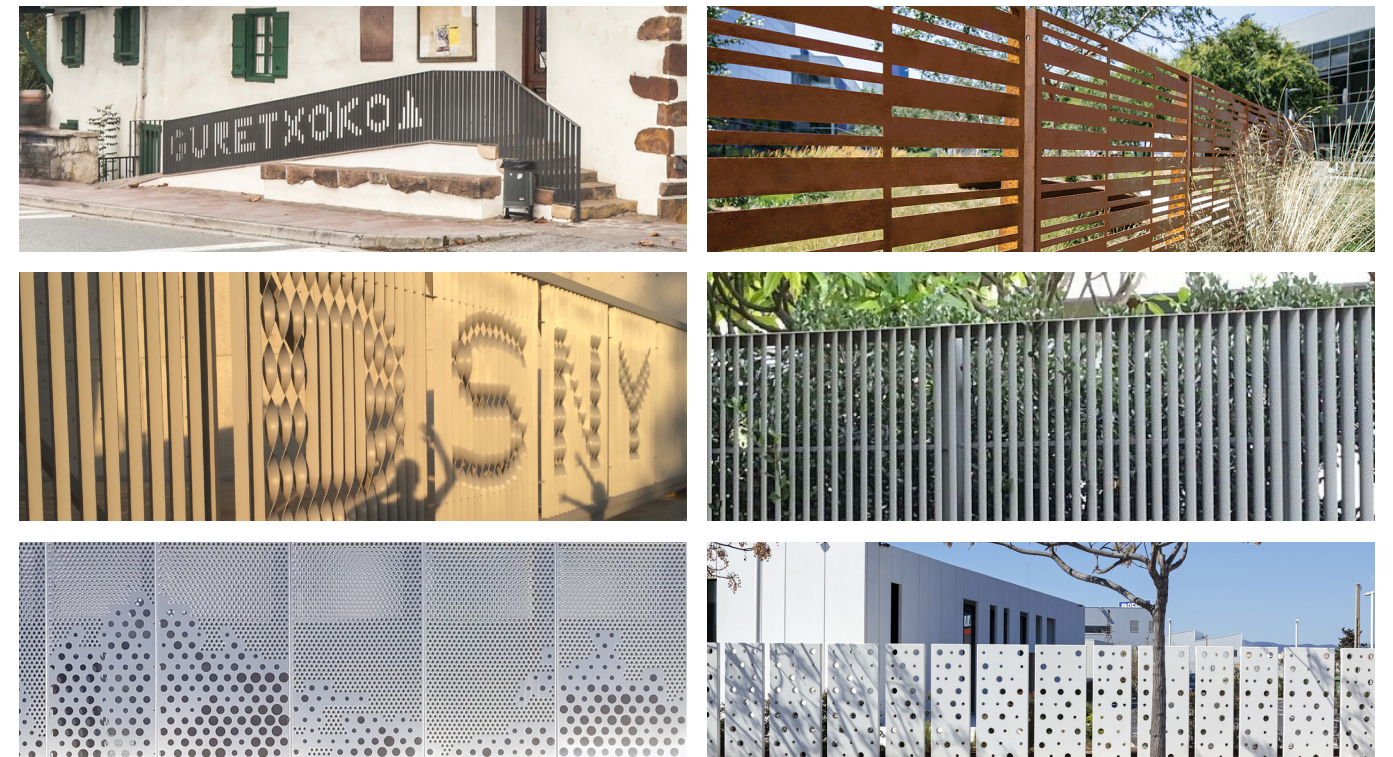


Renderings

Windows



Fencing



Participatory Design Samples

Engagement Materials – Workshop 3



2 Recycling Rooms
Salas de reciclaje

Facts About the Recycling Rooms:
Datos sobre las salas de reciclaje:

- The Recycling Room will be in each building lobby. La sala de reciclaje estará en el vestíbulo de cada edificio.
- Both recyclable materials and trash will be collected here. Aquí se recogerán tanto los materiales reciclables como la basura.
- Items deposited in the Recycling Rooms are either deposited into the tube system, or carried out by a professional (depending on item type). Los artículos depositados en las Salas de Reciclaje se depositan en el sistema de tubos, o son llevados a cabo por un profesional (dependiendo del tipo de artículo).
- The design of the space and what is available within it will be determined by the residents of Polo Grounds. El diseño del espacio y lo que está disponible en él será determinada por los residentes de Polo Grounds.

Instructions:
Instrucciones:

- Review the model of the Recycling Room and the individual points of interaction from 1 to 6. Revisar el modelo de la Sala de Reciclaje y los puntos individuales de interacción del 1 al 6.
- Take stickies and leave comments on ideas, challenges, opportunities in the provided areas around the model. Tome notas adhesivas y deje comentarios sobre ideas, desafíos y oportunidades en las áreas provistas alrededor del modelo.

3 Room Management and Security
Gestión de habitaciones y seguridad

2 Entryway
Entrada

1 Key Fob Access
Acceso con llavero

4 Recycling and Trash Chutes (and their Signage)
Rampas de reciclaje y basura (y su señalización)

5 Other Types of Drop-off (i.e. Compost, Bulk-items, etc.)
Otros tipos de depósito (por ejemplo, composta, artículos de gran tamaño, etc.)

6 Other
Otros

Legend:
Leyenda:

- Points of Interaction / Puntos de interacción
- Resident Flow / Flujo de residentes

New Trash System / Nuevo sistema de basura | Polo Grounds Towers

HESTER ST

New Trash System Bingo – NYCHA Polo Grounds

B	I	N	G	O
Spring 2023	The recycling rooms	The Terminal Building	True	Rats
Saturday, December 10th, 10 – 11:30 AM	Three times a week	Key fobs	Ms. Serena Chandler	Two hour-rated fire-resistant covering
Through the hopper door on our floor	Fall 2024	FREE	Educating other residents	The ground floor of each building
Juliette Spertus at juliette.spertus@nycha.nyc.gov	One on every floor	In our building's recycling room	Heat sensors	Automatically multiple times a day
Plastic, metal, paper, and cardboard	13-gallon	Input from the residents and staff	Us, the residents!	Pressurized air

回收室。钥匙扣访问
回收室：鑰匙扣訪問

指示：
1. 回顾下面的例子图片，想想你在马球场看到什么？查看下面的示例图片并想想您在 Polo Grounds 看到什么。
2. 拿出1张贴纸，为您最喜欢的例子投票。
取1张贴纸并投票选出您最喜欢的示例。

指示：
1. 回顾下面的例子图片，想想您在马球场看到什么？查看下面的示例图片并想想您在 Polo Grounds 看到什么。
2. 拿出1张贴纸，为您最喜欢的例子投票。
取1张贴纸并投票选出您最喜欢的示例。

带门传感器的钥匙扣能扣（与带门的钥匙扣相同）
带门传感器的磁卡门牌（为回收室分发的特殊卡）
带门传感器的磁卡门牌（为回收室分发的特殊卡）

允许物品的逼真图像
允许物品的逼真图像

有居民专用密码输入的实体键盘
具有居民指定代碼輸入的實體鍵盤

传统的实体钥匙（分发给居民）
常规物理鑰匙（分发给居民）

YES
PUT RECYCLABLES IN THE RECYCLING BIN

NO
PUT NON-RECYCLABLES IN THE TRASH OR COMPOST

显示“是”和“不是”例子的标准
顯示“是”和“不是”例子的標準

显示“是”和“不是”例子的标准
顯示“是”和“不是”例子的標準

Polo Grounds Towers

HESTER ST



Frequently Asked Questions

Trash Collection System

NYCHA Polo Grounds

When will this system be constructed?

Construction will start in Spring 2023 and will be completed by Fall 2024.

How often will the containers of trash be picked up?

The containers will be picked up from the collection facility at Polo Grounds about three times a week.

Will this system be fire resistant?

Yes. Hopper doors on each floor and in the new recycling rooms will be self-closing, made of fire-rated steel, and designed to prevent material from catching inside or outside the door. The trash chute will be fire-rated masonry construction. If burning material goes into the chute or a fire starts at the bottom, heat sensors at the base of the chute will activate a sprinkler system and put out the fire.

The transport pipe section, made of heavy steel pipe, will be downstream of waste valves in each of the four Polo Grounds buildings. It will be covered in a two hour-rated fire-resistant covering. The vacuum inside the pipe will extinguish most fires, but if burning material enters the pneumatic transport pipe, the equipment will shut off valves to contain the fire so it is not able to spread.

What other safety measures will be put in place?

In addition to fire safety measures, new hopper doors will have a tray to prevent large objects from being put into the chute. They will also have an interconnected locking mechanism so that as needed staff can lock hopper doors on all 30 floors from a touch screen at the base of the chute. The recycling rooms will be secured as discussed in the following response.

Will this system be accessible?

Inside the new ground floor recycling rooms hopper doors will be ADA and wheelchair accessible. New hopper doors installed on each floor will be ADA accessible to the extent possible based on existing site conditions. Signage for blind or visually impaired can be added.



How will the recycling room be secured?

The recycling room door will be lockable. The room will also be covered by two CCTV cameras and will have bright LED lighting and a window so that the interior of the room is visible from the lobby. The plan calls for a key fob lock so that residents can use the same key that they use to enter the building to access the recycling room. The recycling room can be secured so that it is only accessed during certain hours. The final design for securing the room will be determined with property management and resident input.

How big are the hopper doors? Will the system accommodate large items?

The exact dimensions of the new hopper doors are still being determined. The goal is to increase the opening of the hopper doors so that 13-gallon kitchen trash bags will fit but include features to prevent bulky objects such as broom handles or rolls of carpeting from clogging the chute.

How often will the chute be cleaned?

The gravity chute will be cleaned as needed. If the pneumatic transport pipes need to be cleaned, a procedure similar to cleaning sewer lines can be administered.

What if you accidentally drop something down the chute, like keys?

For safety reasons, NYCHA staff are not permitted to sort through material that falls down the existing trash chutes. Anything that is dropped down the chute would be lost. The same would be true after the pneumatic system is installed.

Will this system attract pests, like rats and raccoons?

No. Chutes will be emptied automatically, multiple times a day, so trash will be continuously removed from the building. In addition, the system is completely sealed. The trash chute will connect directly to the transport pipe which will connect directly to the container at the collection facility.

How can we make sure everyone knows how to use the system correctly?

The system will include signage with straightforward instructions so residents know how to use the system, but we know it can be hard to make sure everyone is using it correctly. **We need YOU to help us get out the word and be leaders at Polo Grounds** to teach your neighbors how to properly use the system for a cleaner, healthier campus for all.

Do you have any other questions? Write them on an index card!

Engagement Materials – Workshop 4

Educational Installations

Instalaciones educativas

Installations éducatives

教育设施

教育設施

To learn more about the New Trash System and the timeline of construction, **scan this QR code.**



Para obtener más información sobre el nuevo sistema de recogida de basuras y el calendario de construcción, **escanee este código QR.**

Pour en savoir plus sur le nouveau système de collecte des déchets et sur le calendrier de construction, **scannez ce code QR.**

要了解更多关于新垃圾系统和建设时间表的信息，请扫描这个QR码。

要了解有關新垃圾系統和建設時間表的更多信息，請掃描此二維碼。

The following installations are drafts of the **educational signage** that will appear around Polo Grounds **during construction.**

Las siguientes instalaciones son esbozos de **la señalización educativa** que aparecerá en los alrededores del Polo Grounds **durante las obras.**

Les installations suivantes sont des ébauches de **la signalisation éducative** qui apparaîtra autour de Polo Grounds **pendant la construction.**

下面的裝置是施工期間將出現在Polo場地周圍的教育標誌的草稿。

以下裝置是施工期間將出現在 Polo Grounds 周圍的教育標牌草稿。

We will review the installations in groups. Please take sticky notes and **leave your thoughts** directly on the installations as you review them.

Revisaremos las instalaciones en grupos. Por favor, tomen notas adhesivas y **dejen sus pensamientos** directamente en las instalaciones mientras las revisan.

Nous examinerons les installations en groupes. Veuillez prendre des notes autocollantes et **laisser vos pensées** directement sur les installations pendant que vous les examinez.

我們將分組審查這些裝置。請用便籤在裝置上直接留下你的想法，因為你在審查它們。

我們將分組審查安裝。請記下便利貼，並在您查看它們時直接在裝置上留下您的想法。

On a residential floor

En un piso residencial

Dans un étage résidentiel

在一个住宅楼层

在住宅樓層

In the building lobby

En el vestíbulo del edificio

Dans le hall du bâtiment

在大楼大厅

在大樓大廳

At the southern parking lot

En el aparcamiento sur

Au parking sud

在南部的停车场

在南停車場

Installation Plan Workshop 4

educational installations

[text framing this activity]

on resident floor

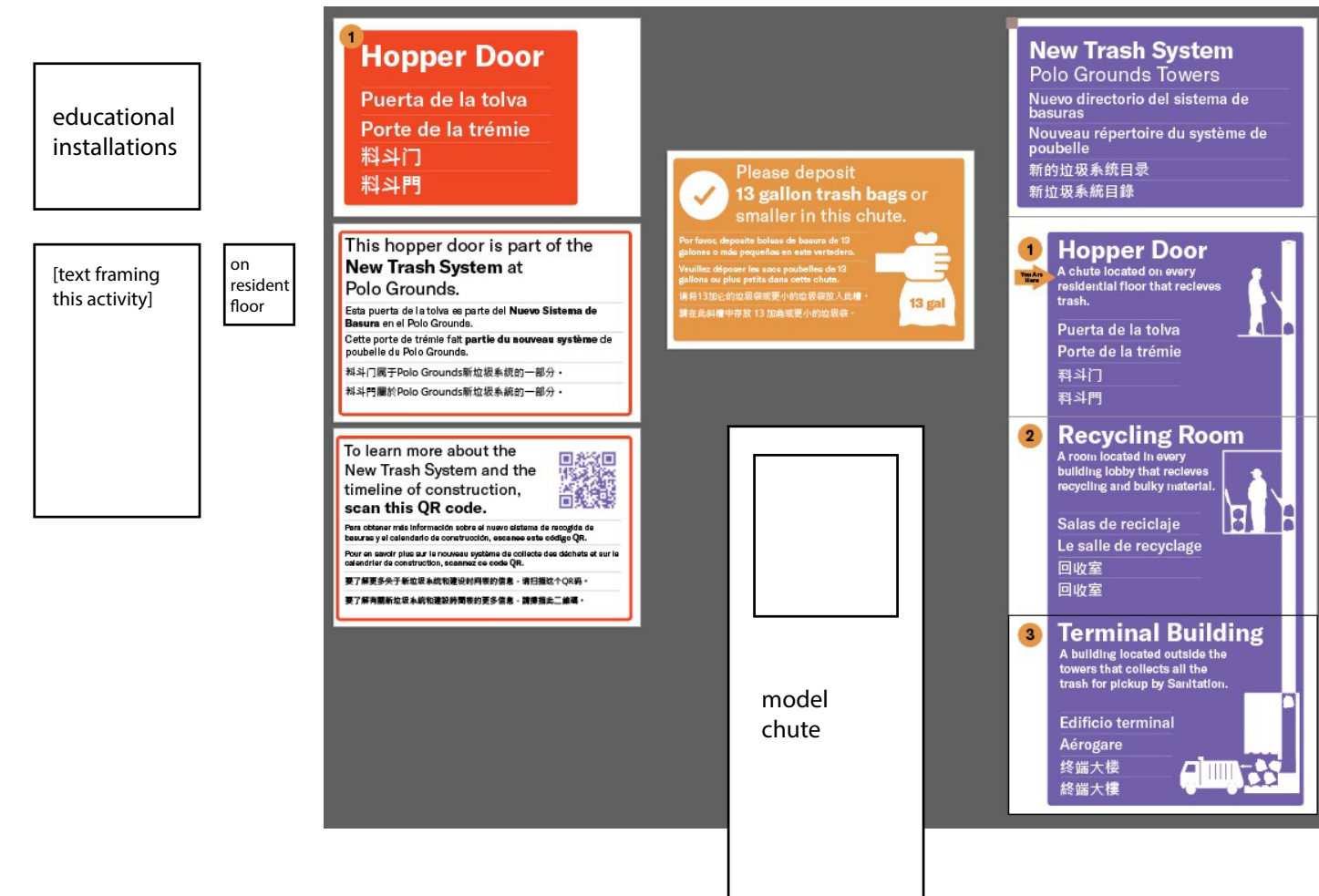
~60in

~80in

~144in

Educational Installation Instructions and Plan

Engagement Materials – Workshop 4



Hopper Door Signage Mockup

1

Hopper Door

Puerta del vertedero

Porte de la trémie

料斗门

料斗門

This hopper door is part of the **New Trash System** at Polo Grounds.

Esta puerta del vertedero es parte del **nuevo sistema de eliminación de basura** en el Polo Grounds.

Cette porte de trémie fait **partie du nouveau système de poubelle** du Polo Grounds.

料斗门属于Polo Grounds新垃圾系统的一部分。

料斗門屬於Polo Grounds新垃圾系統的一部分。

✓ Please deposit **13 gallon trash bags or smaller** in this chute.

Por favor, deposite **bolsas de basura de 13 galones** o más pequeñas en este vertedero.

Veillez déposer **les sacs poubelles de 13 gallons** ou plus petits dans cette chute.

请将13加仑的垃圾袋或更小的垃圾袋放入此槽。

請在此斜槽中存放 13 加侖或更小的垃圾袋。

13 gal

✗ This chute **does not take:**

- Cans/metal
- E-waste
- Cardboard
- Compost
- Textiles
- Paper

Este paracaidas **no toma:** Latas/metal, compost, residuos electrónicos, textiles, cartón y papel.

Cette goulotte **ne prend pas :** Les canettes/métaux, le compost, les déchets électroniques, les textiles, le carton et le papier.

此滑道不接受：罐頭/金屬、堆肥、電子垃圾、紡織品、紙板和紙張。

這個滑槽不帶：罐頭/金屬、堆肥、電子垃圾、紡織品、紙板和紙張。

Hopper Door Signage

New Trash System

Polo Grounds Towers

Nuevo sistema de eliminación de basura

Nouveau système de collecte des déchets

新建垃圾处理系统

新建垃圾處理系統

1 You Are Here

Hopper Door

A chute located on every residential floor that receives trash.

Puerta del vertedero

Porte de la trémie

料斗门

料斗門

2

Recycling Room

A room located in every building lobby that receives recycling and bulky material.

Salas de reciclaje

Le salle de recyclage

回收室

回收室

3

Terminal Building

A building located outside the towers that collects all the trash for pickup by Sanitation.

Edificio terminal

Terminal de collecte

终端大楼

终端大楼

Engagement Materials – Workshop 4



Recycling Room Signage Mockup

2

Recycling Room

Salas de reciclaje

Le salle de recyclage

回收室

回收室

This recycling room is part of the **New Trash System** at Polo Grounds.

Esta sala de reciclaje forma parte del **nuevo sistema de eliminación de basura** del Polo Grounds.

Cette salle de recyclage fait partie du **nouveau système de collecte des déchets** au Polo Grounds.

这个回收室是 Polo Grounds 新垃圾系统的一部分。

這個回收室是 Polo Grounds 新垃圾系統的一部分。

All recyclables, as well as bulky material, can be deposited using the properly labelled chutes or bins inside.

Todos **los materiales reciclables**, así como **los voluminosos**, pueden depositarse utilizando las tolvas o contenedores debidamente etiquetados que hay en el interior.

Tous **les produits recyclables**, ainsi que **les matériaux encombrants**, peuvent être déposés dans les goulottes ou les bacs dûment étiquetés qui se trouvent à l'intérieur.

所有可回收物品以及笨重的材料都可以使用内部有适当标签的滑槽或垃圾箱进行存放。

所有可回收物品以及笨重的材料都可以使用内部正确标记的滑槽或垃圾箱进行存放。

This room is only accessible to Polo Grounds residents and staff, and is **monitored remotely by CCTV.**

A esta sala sólo pueden acceder los residentes y el personal del Polo Grounds, y está **vigilada a distancia** por circuito cerrado de televisión.

Cette pièce n'est accessible qu'aux résidents et au personnel de Polo Grounds, et est **surveillée à distance** par CCTV.

这个房间只有Polo Grounds的居民和工作人员可以进入，并由闭路电视进行远程监控。

這個房間僅供 Polo Grounds 居民和工作人員使用，並由閉路電視遠程監控。

Recycling Room Signage

2
You Are Here

Recycling Room

A room located in every building lobby that receives recycling and bulky material.

Salas de reciclaje

Le salle de recyclage

回收室

回收室

Please deposit **all 13 gallon trash bags** into the trash chute.

Por favor deposite **todas las bolsas de basura de 13 galones** en el vertedero.

Veillez déposer **tous les sacs poubelles de 13 gallons** dans le vide-ordures.

請將所有13加侖的垃圾袋放入垃圾槽。

請將所有 13 加侖的垃圾袋放入垃圾槽。

This room does take:

- Cans/metal
- E-waste
- Cardboard
- Compost
- Textiles
- Paper

Esta habitación sí acepta: Latas/metal, compost, residuos electrónicos, textiles, cartón y papel.

Cette pièce prend : Les canettes/métaux, le compost, les déchets électroniques, les textiles, le carton et le papier.

这个房间确实需要：罐头/金属、堆肥、电子垃圾、纺织品、纸板和纸张。

這個房間確實需要：罐頭/金屬、堆肥、電子垃圾、紡織品、紙板和紙張。

3 Terminal Building

Edificio terminal
Terminal de collecte
终端大楼
终端大楼

The terminal building is part of the **New Trash System** at Polo Grounds.

El edificio de la terminal forma parte del **nuevo sistema de eliminación de basura** del Polo Grounds.

Le terminal de collecte fait partie du **nouveau système de collecte des déchets** au Polo Grounds.

这个回收室是 Polo Grounds 新垃圾系统的一部分。
這個回收室是 Polo Grounds 新垃圾系統的一部分。

It collects all the **trash and recyclables** supplied by each building and stores it for pick-up.

Recoge toda la **basura y los materiales reciclables** suministrados por cada edificio y los almacena para su recogida.

Il collecte tous les **déchets et les produits recyclables** fournis par chaque bâtiment et les stocke pour le ramassage.

它收集每栋楼提供的所有垃圾和可回收物，并将其储存起来以备取用。
它收集每棟樓提供的所有垃圾和可回收物，並將其存放起來以備取走。

To learn more about the **New Trash System** and the timeline of construction, **scan this QR code.**



Para obtener más información sobre el nuevo sistema de recogida de basuras y el calendario de construcción, **escanee este código QR.**

Pour en savoir plus sur le nouveau système de collecte des déchets et sur le calendrier de construction, **scannez ce code QR.**

要了解更多关于新垃圾系统和建设时间表的信息，请扫描这个QR码。

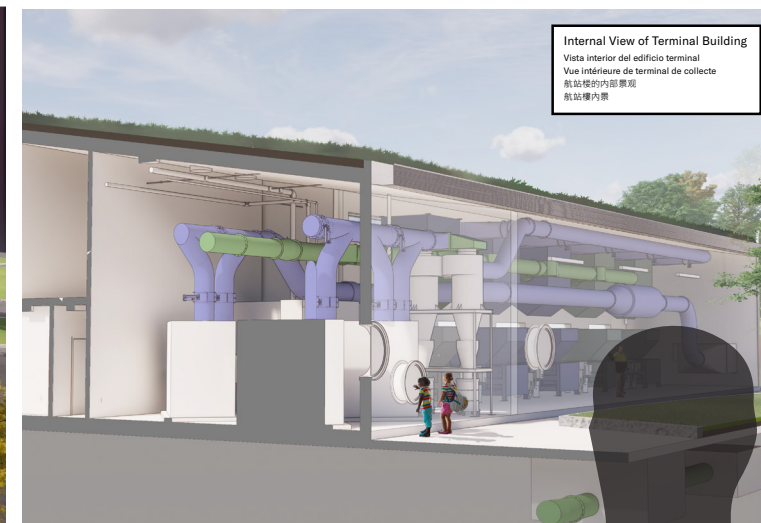
要了解有關新垃圾系統和建設時間表的更多信息，請掃描此二維碼。



Back of Terminal Building from South Parking Lot
Parte trasera del edificio terminal desde el estacionamiento sur
L'arrière de l'aérogare depuis le parc de stationnement sud
从南边的停车场看航站楼的后面
從南停車場看航站楼後面



Aerial of Terminal Building in South Parking Lot
Área del edificio de la terminal en el estacionamiento sur
Vue aérienne de terminal de collecte dans le parc de stationnement sud
南邊停車場的航站樓鳥瞰圖
南停車場航站樓鳥瞰圖



Internal View of Terminal Building
Vista interior del edificio terminal
Vue intérieure de terminal de collecte
航站樓內部景觀
航站樓內景

New Trash System Polo Grounds Towers

Nuevo sistema de eliminación de basura

Nouveau système de collecte des déchets

新建垃圾处理系统

新建垃圾處理系統

1 Hopper Door

A chute located on every residential floor that receives trash.

Puerta del vertedero

Porte de la trémie

料斗门

料斗門

2 Recycling Room

A room located in every building lobby that receives recycling and bulky material.

Salas de reciclaje

Le salle de recyclage

回收室

回收室

3 Terminal Building

A building located outside the towers that collects all the trash for pickup by Sanitation.

Edificio terminal

Terminal de collecte

终端大楼

终端大楼