



**RECOVERY — & —
RESILIENCE**

NYCHA'S SUPERSTORM SANDY RECOVERY PROGRAM

New York City Housing Authority Recovery and Resilience Department

SUPERSTORM SANDY TEN-YEAR ANNIVERSARY



Letter from the Senior Vice President for Capital Programs

Dear New Yorkers,

Superstorm Sandy devastated New York City in October 2012. Despite living in a city with 520 miles of coastline, residents had never grappled with storm surge at this scale. Salt water and debris covered huge swaths of the five boroughs, including many NYCHA campuses. Unlike prior major storms, the impacts didn't dissipate when the weather improved. Salt water corroded critical infrastructure that was stored below grade. The homes of tens of thousands of public housing residents—most of whom couldn't evacuate before the storm—were without water, power, heat, hot water, or elevator service for weeks. NYCHA's operational staff worked day and night to restore service by clearing debris, replacing system components, and installing mobile boilers, but many developments required major capital investments to recover.

Other cities tore down public housing after storm damage like this. NYCHA chose to preserve its public housing, creating the Recovery and Resilience Department to address critical repairs at the 35 most severely impacted developments and to protect NYCHA residents from similar impacts in the future. To fulfill this mission, the Department has awarded and spent over \$3 billion in contracts to implement storm surge protection for 50, 60, and 70-year old buildings, install boilers and generators on rooftops, and add architecturally significant annexes. This took a special kind of entrepreneurial approach to secure funding, engage residents, manage massive projects, and operationalize equipment. The work isn't over yet, but we are closer than ever before to realizing a more resilient NYCHA.



In partnership,

Joy Sinderbrand
Senior Vice President
for Capital Programs



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NYCHA's Recovery & Resilience Department

Questions/Problems, 疑问/家里的问题, Вопросы / Проблемы, Preguntas/Problemas

(212) 306-8532 — disaster.recovery@nycha.nyc.gov

Website: tinyurl.com/SANDYRECOVERY

Sandy Updates: <https://bit.ly/SandyNewsUpdate>



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OVERVIEW



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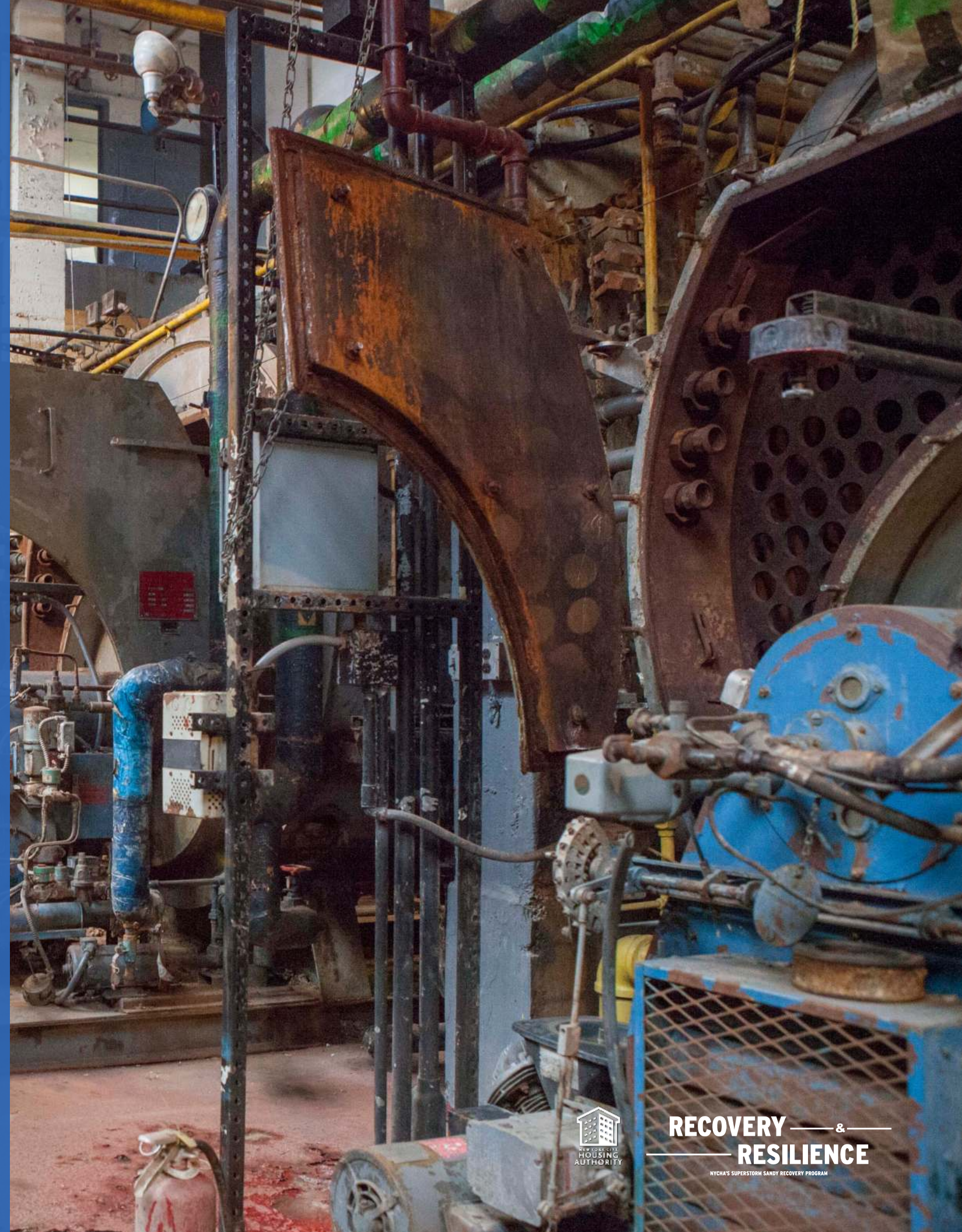
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OVERVIEW

In October 2012, Superstorm Sandy caused the most costly and destructive disaster to impact New York City public housing in its history. Thirty-five New York City Housing Authority (NYCHA) sites, home to over 60,000 New Yorkers, suffered major storm-related damage, including disabled electrical and mechanical equipment, compromised building structures, and deteriorated landscapes. In total, Superstorm Sandy caused billions of dollars in damages to NYCHA properties.

Ten years later, NYCHA has invested over \$2.6 billion in disaster recovery funding and nearly completed its efforts to build back safer, stronger, and smarter. By pushing design boundaries in building reinforcements, storm surge protection, and infrastructure upgrades, NYCHA has leveraged every dollar to make these coastal developments a national model and a safer home for residents for generations to come.



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DEVELOPMENTS DAMAGED BY SUPERSTORM SANDY

01 Northern Manhattan

- East River
- Isaacs
- Lincoln
- Metro North Plaza
- Rangel

02 Queens

- Astoria

03 Downtown Manhattan

- Baruch
- Campos Plaza II
- La Guardia
- Lavanburg
- LES Rehab V
- Riis I
- Riis II
- Smith
- Two Bridges
- Wald

04 Red Hook

- Gowanus
- Red Hook East and West

05 Staten Island

- New Lane Area

06 Coney Island

- Carey Gardens
- Coney Island 1B (Unity Towers)
- Coney Island 4&5
- Coney Island Houses
- Coney Island Sites (Surfside Gardens, O'Dwyer Gardens, Site 8)
- Gravesend
- Haber

07 Far Rockaway

- Beach 41st
- Carleton Manor
- Hammel
- Ocean Bay (Bayside)
- Ocean Bay (Oceanside)
- Redfern



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PROGRAM MILESTONES

As of August 2024

Funds

\$3.3 billion

Total Disaster
Recovery Funding



\$3.2 billion
in contracts awarded

\$3.1 billion
in work completed

Construction

35

damaged developments
have had major construction
awarded covering
246 buildings.

25

developments have completed
storm surge protection installation
(serving over 14,919 apartments
in 163 buildings)



187 roofs completed



183 hot water
heaters installed



1,270 CCTV cameras
installed



72 new boilers
set in place

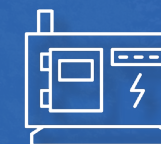


132 entrance doors with
new security systems

56 new boilers systems
operational (serving over
4,288 apartments in 51 buildings)



141 new MEP annex
buildings completed
(buildings to elevate new
equipment above future flood water)



197 backup generators
installed

2 new MEP annex
buildings in progress

142 backup generators
operational (99 turned over
— serving over 14,262 apartments in
153 buildings)



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BOILER UPGRADES

Approximately **3,500 apartments** have new, flood-protected boilers. Altogether, there will be **72 new boilers** at **20 sites** serving **156 buildings**.



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CARLETON MANOR



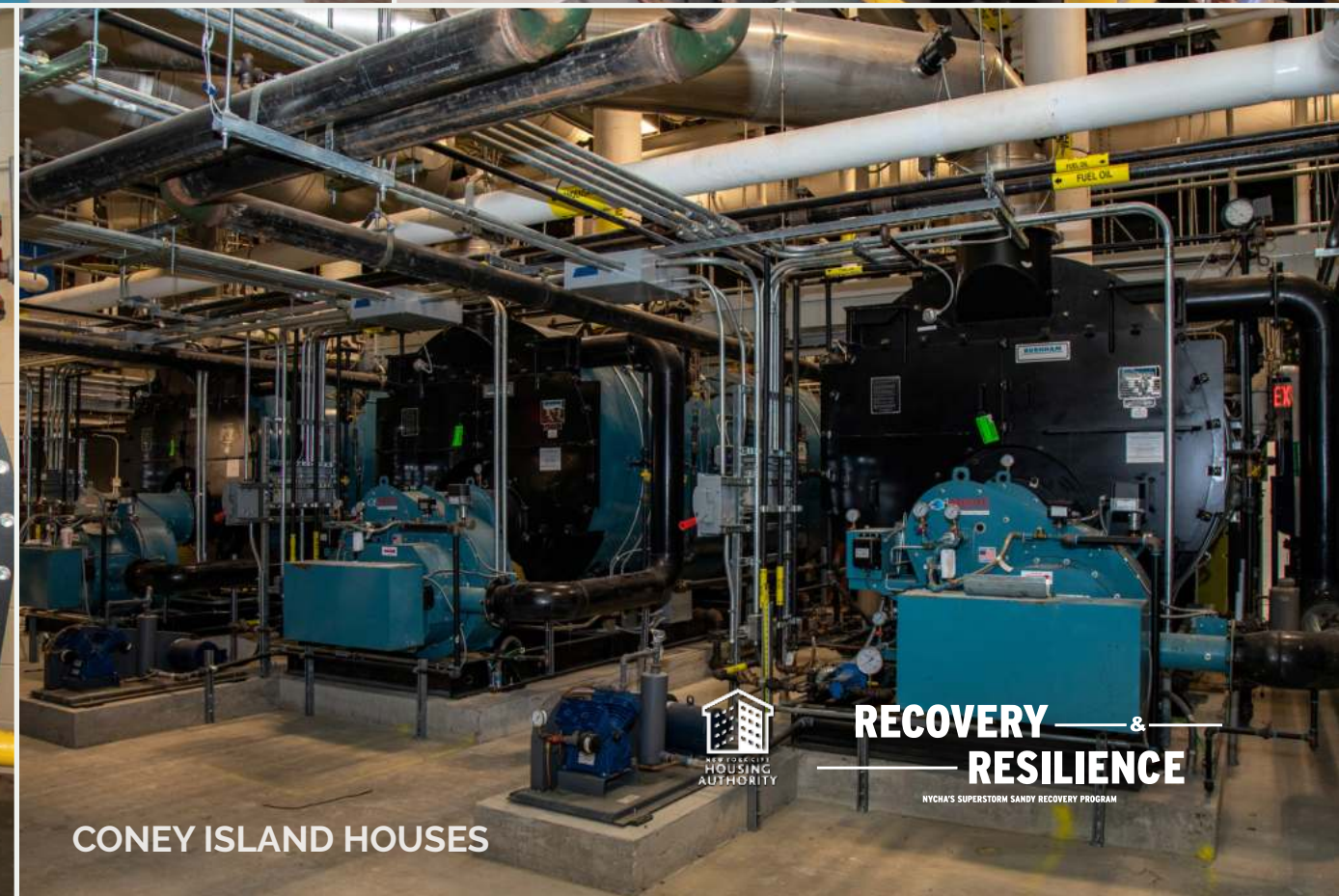
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CARLETON MANOR



CAMPOS PLAZA II



CONEY ISLAND HOUSES



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CONEY ISLAND 4&5



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RED HOOK EAST AND WEST

REDFERN



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NEW STRUCTURES

NYCHA has installed **120 of the 143 new structures** housing new mechanical, electrical, and plumbing equipment above the flood level.

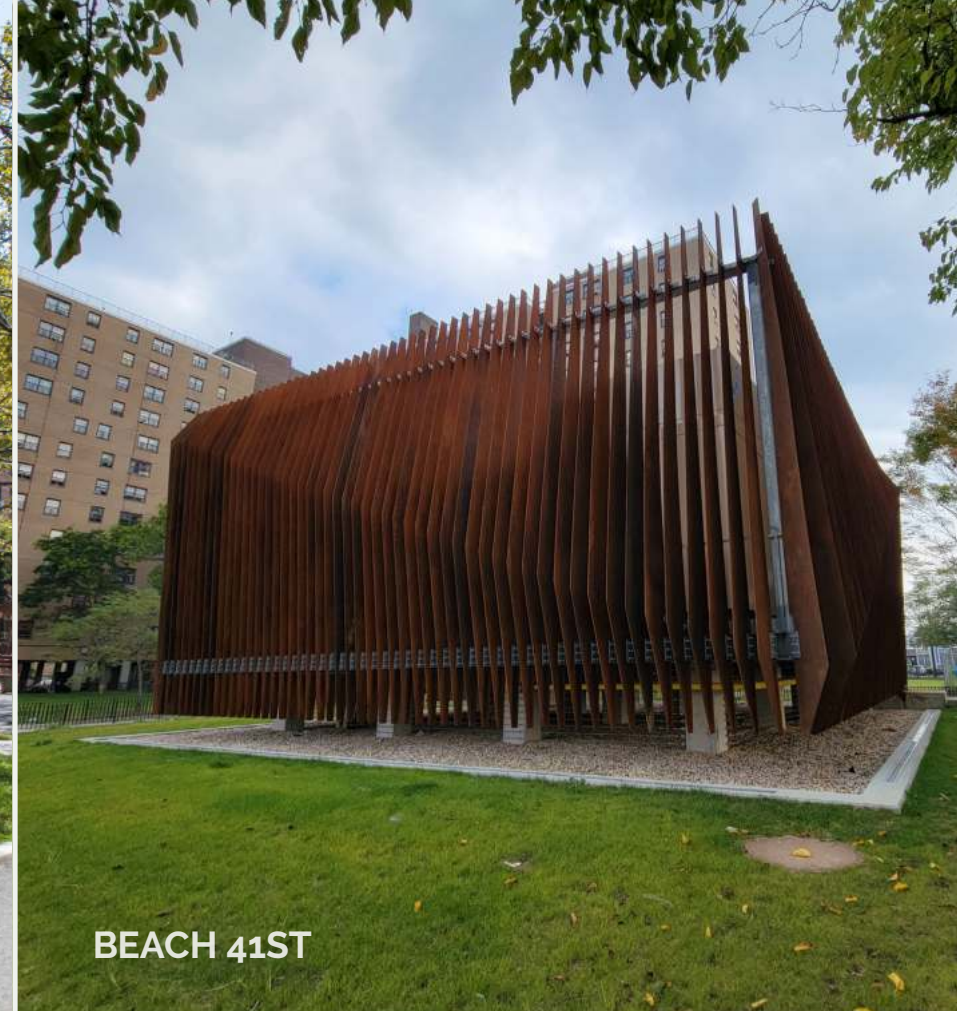




HABER



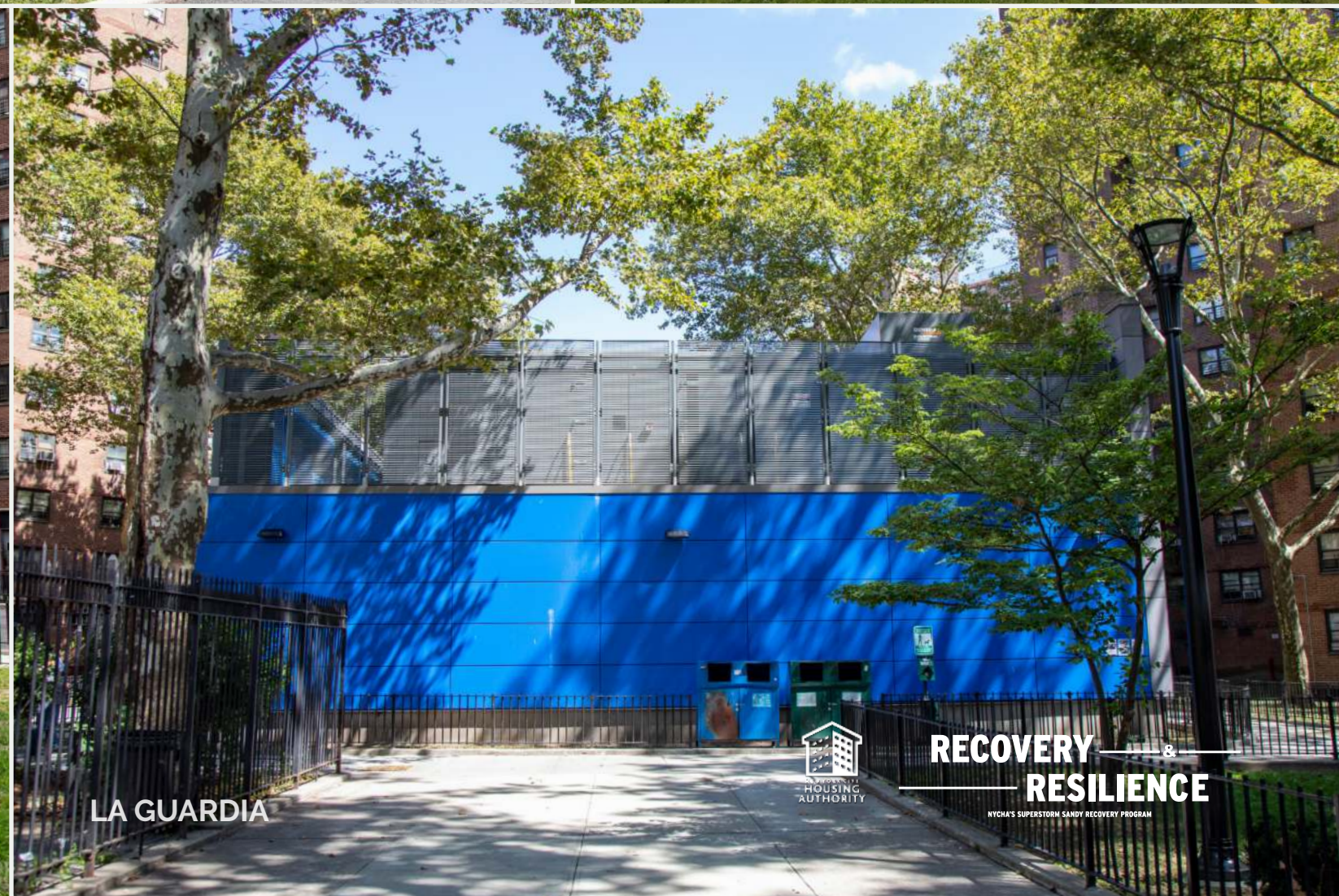
GRAVESEND



BEACH 41ST



CONEY ISLAND HOUSES



LA GUARDIA



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RIIS II



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REDFERN



ISAACS



REDFERN



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GENERATORS

189 natural gas-powered generators are installed; **approximately 10,000 apartments** have back up power.



RIIS II



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HAMMEL



RIIS II



CONEY ISLAND HOUSES



CAMPOS PLAZA II



OCEAN BAY (OCEANSIDE)



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ASTORIA



HAMMEL



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WALD



GOWANUS



EAST RIVER



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GENERAC INDUSTRIAL
POWER

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FLOOD PROTECTION

Altogether, over **13,000 floodproofing** components will benefit **194 buildings** across **33 sites**.





GRAVESEND



OCEAN BAY (OCEANSIDE)



REDFERN



CAREY GARDENS



CAMPOS PLAZA II



OCEAN BAY (OCEANSIDE)



CAMPOS PLAZA II



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TWO BRIDGES



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LOWER EAST SIDE V



LOWER EAST SIDE V



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SITE LIGHTING

Over **2,000** new, energy-efficient
site lights are installed across
33 sites.



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GOWANUS



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A RICHARD STURGES/STORM GARDY RECOVERY PROGRAM

SITE IMPROVEMENTS

Restoration of Sandy-damaged
public spaces across all **35 sites**

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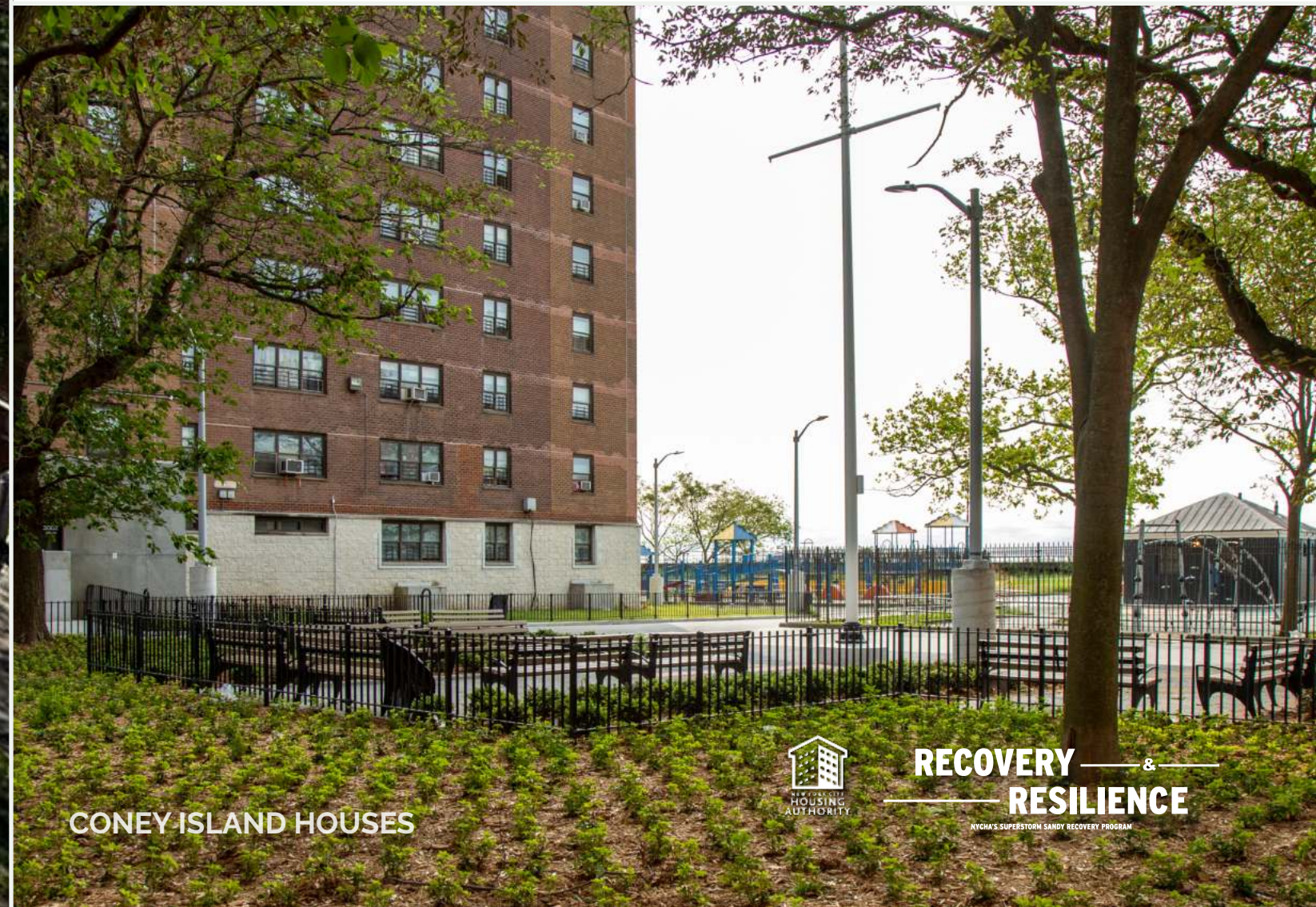




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CONEY ISLAND HOUSES

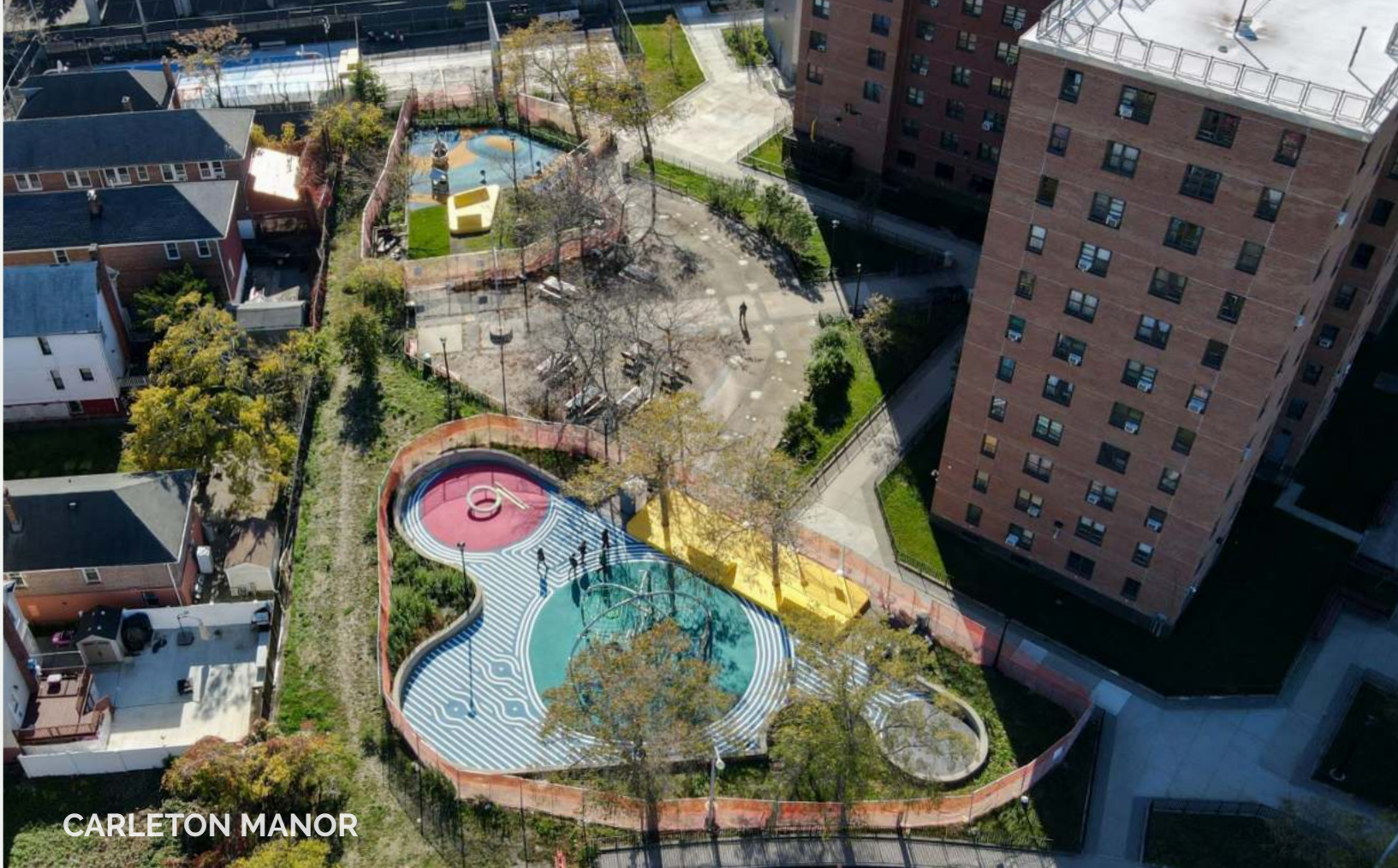


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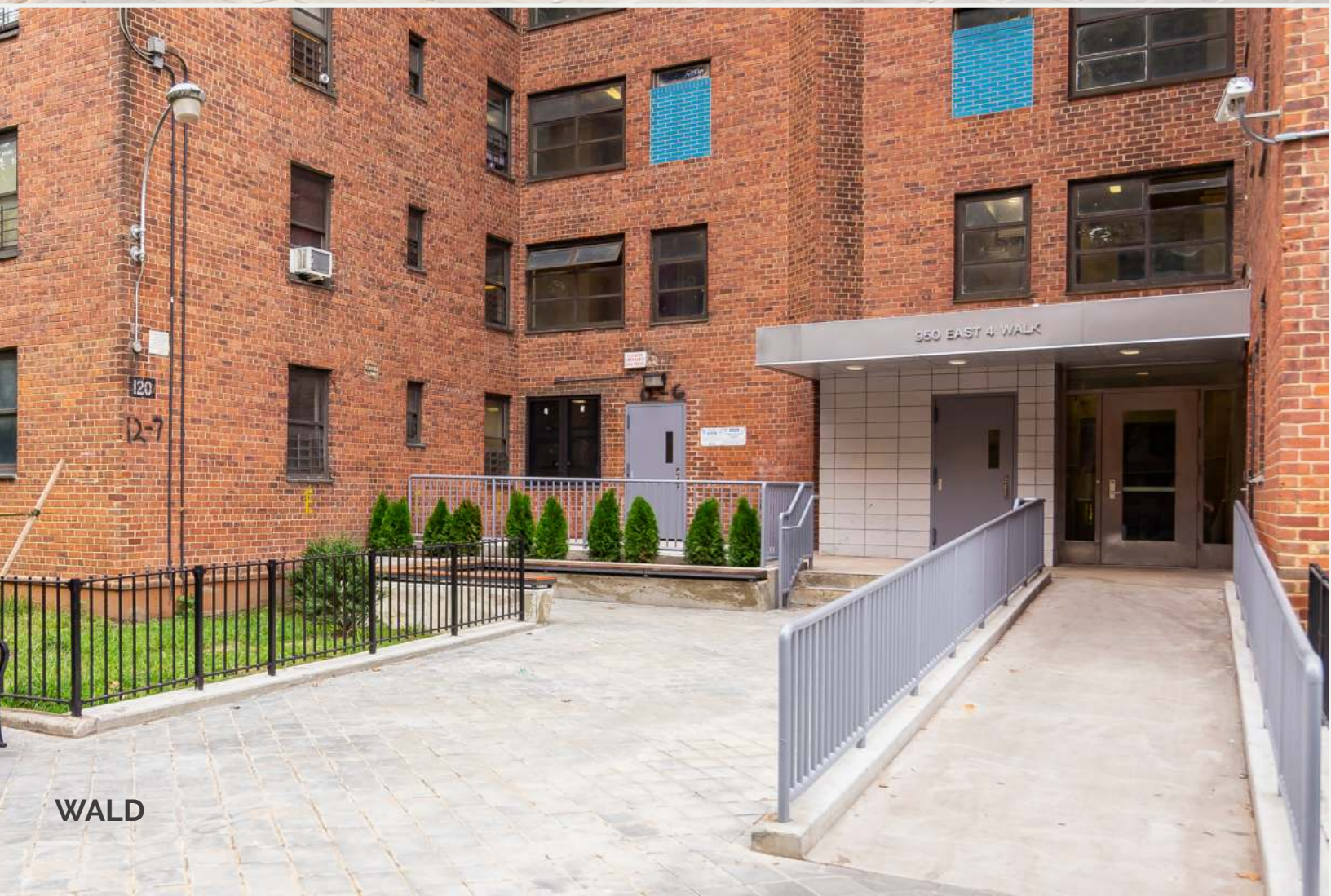
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WALD



CARLETON MANOR



WALD

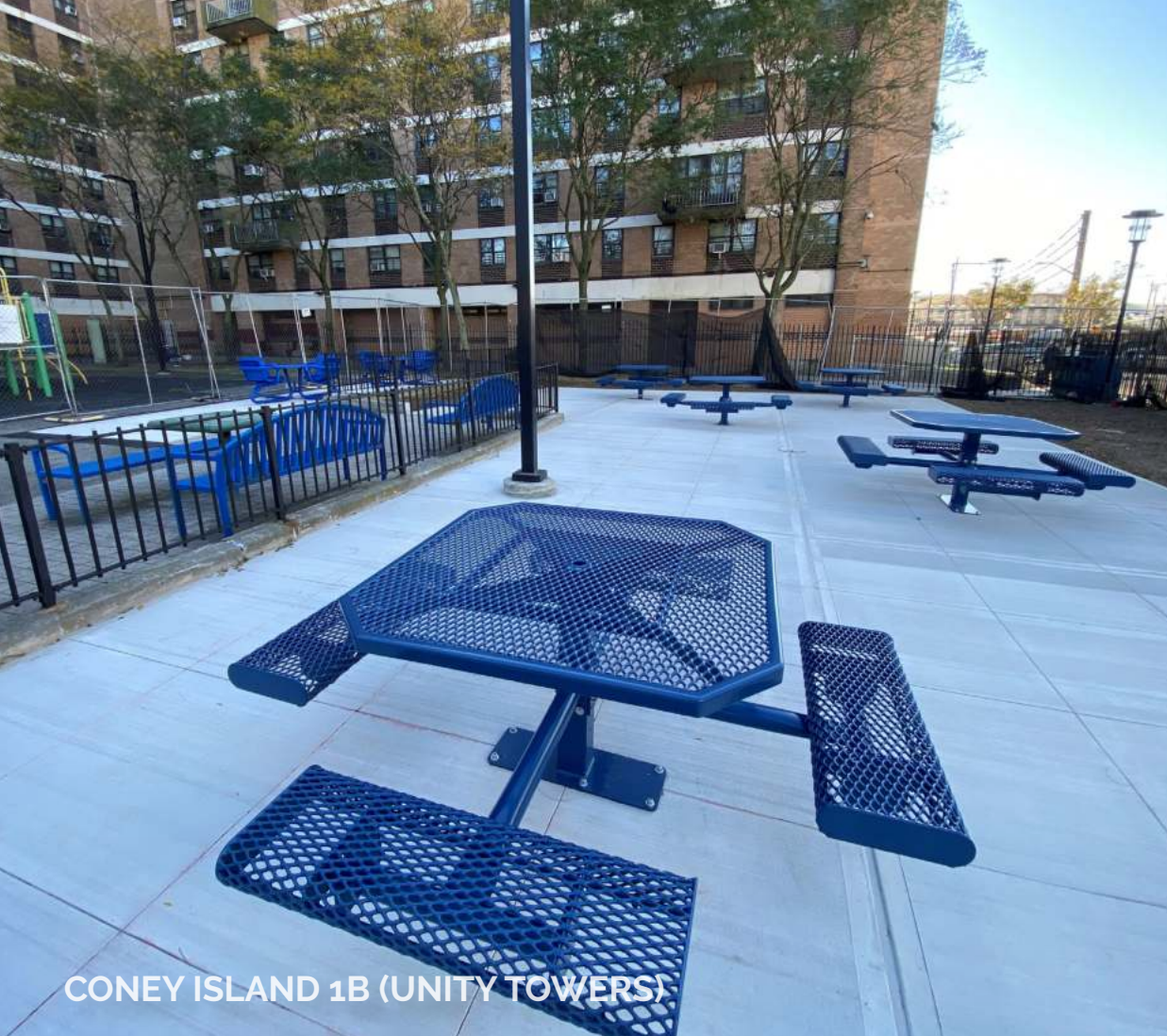


HAMMEL



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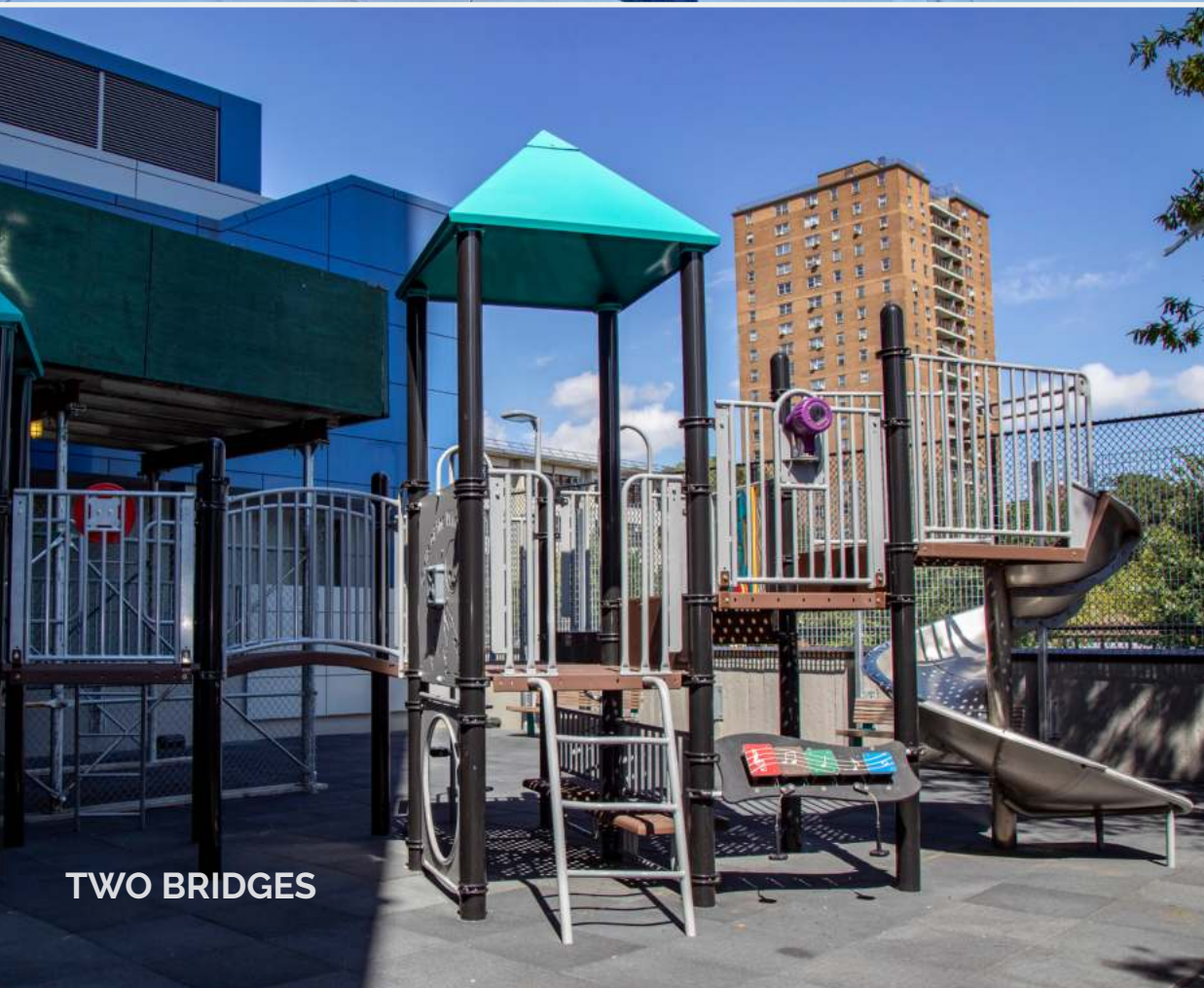
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SURFSIDE GARDENS



TWO BRIDGES



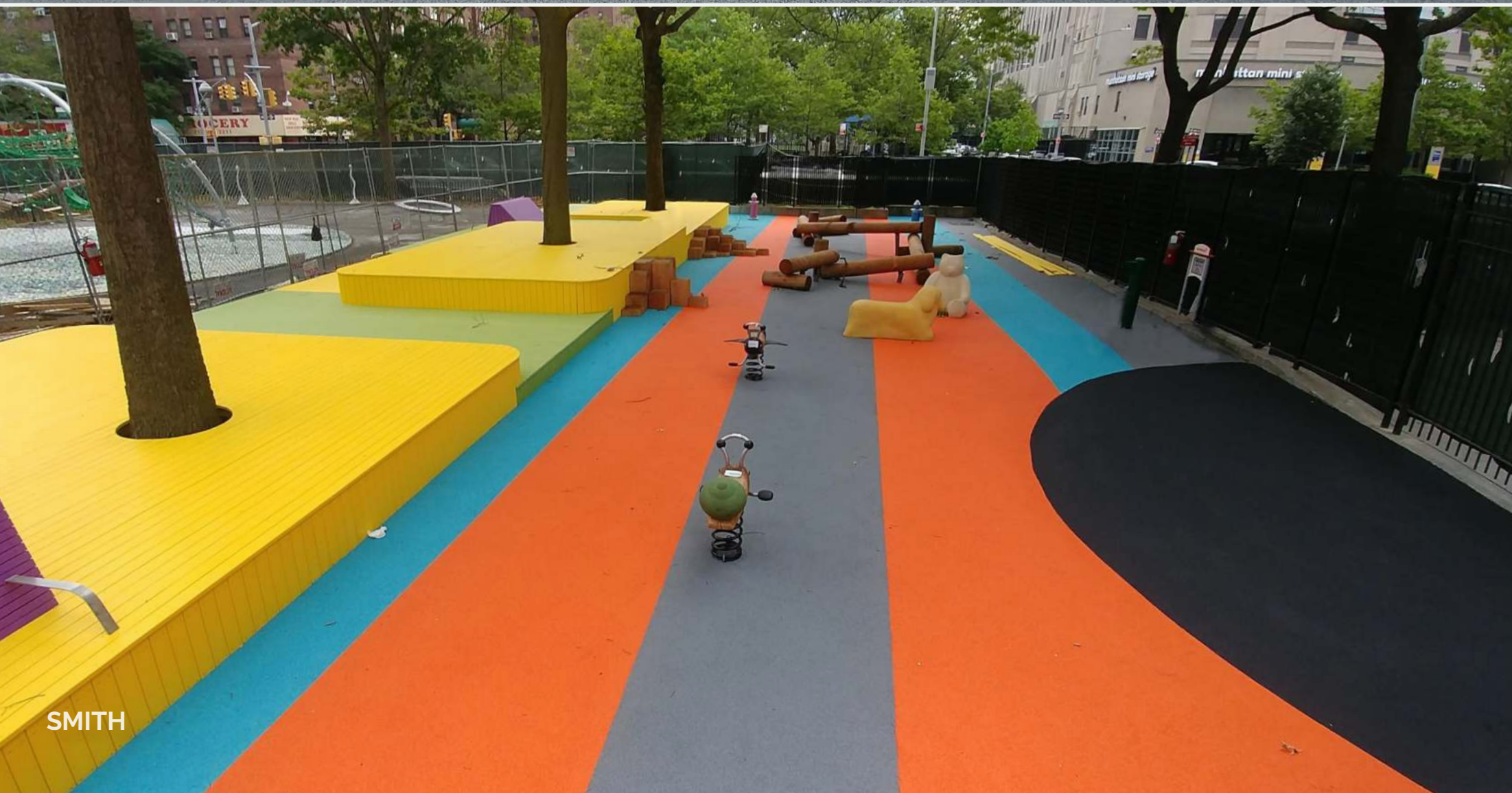
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SMITH



SMITH

SMITH



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CONCLUSION



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CONCLUSION

Public housing is one of New York City's most critical of infrastructure systems, so preserving this affordable housing stock for future generations of New Yorkers is a top priority. NYCHA's work serves as a shining example of how a housing authority can rebuild and reinvest after a disaster. The progress made since 2012 is only the beginning as NYCHA advances the goals of its Climate Adaptation Plan and Sustainability Agenda. NYCHA is pursuing a major FEMA grant for the repair and mitigation of 12 developments most severely impacted by Hurricane Ida, installing green infrastructure at three dozen campuses in collaboration with DEP, designing and installing cloudburst infrastructure at seven developments, and pursuing partnerships and funding for much more.



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OCEAN BAY (BAYSIDE)

2024 APPENDIX

COMPLETED WORK



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BEACH 41ST



BEACH 41ST



CAREY GARDENS



O'DWYER GARDENS



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RED HOOK EAST AND WEST



RED HOOK EAST AND WEST



ISAACS



METRO NORTH



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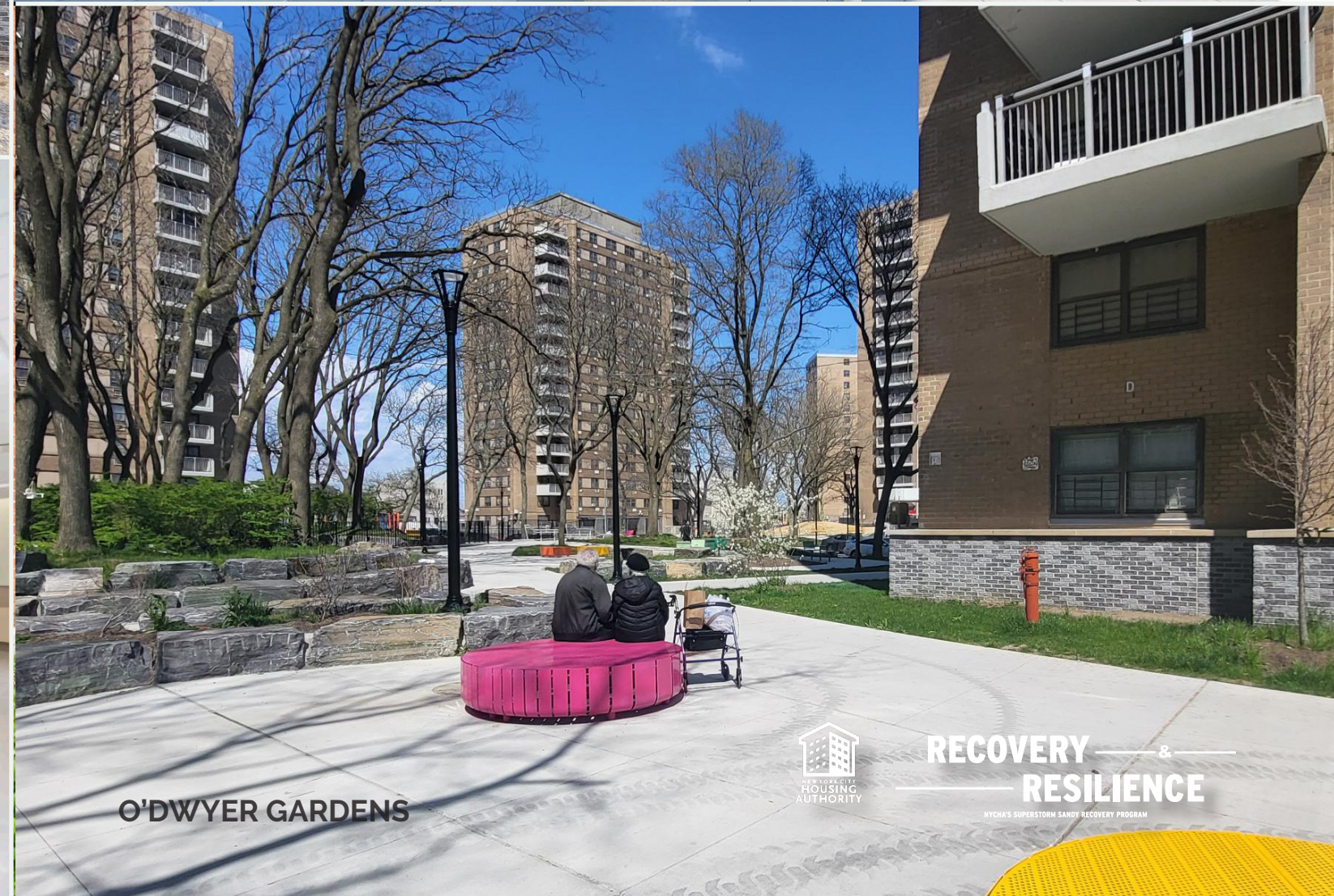
CONEY ISLAND (SITE 8)



SURFSIDE GARDENS



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O'DWYER GARDENS



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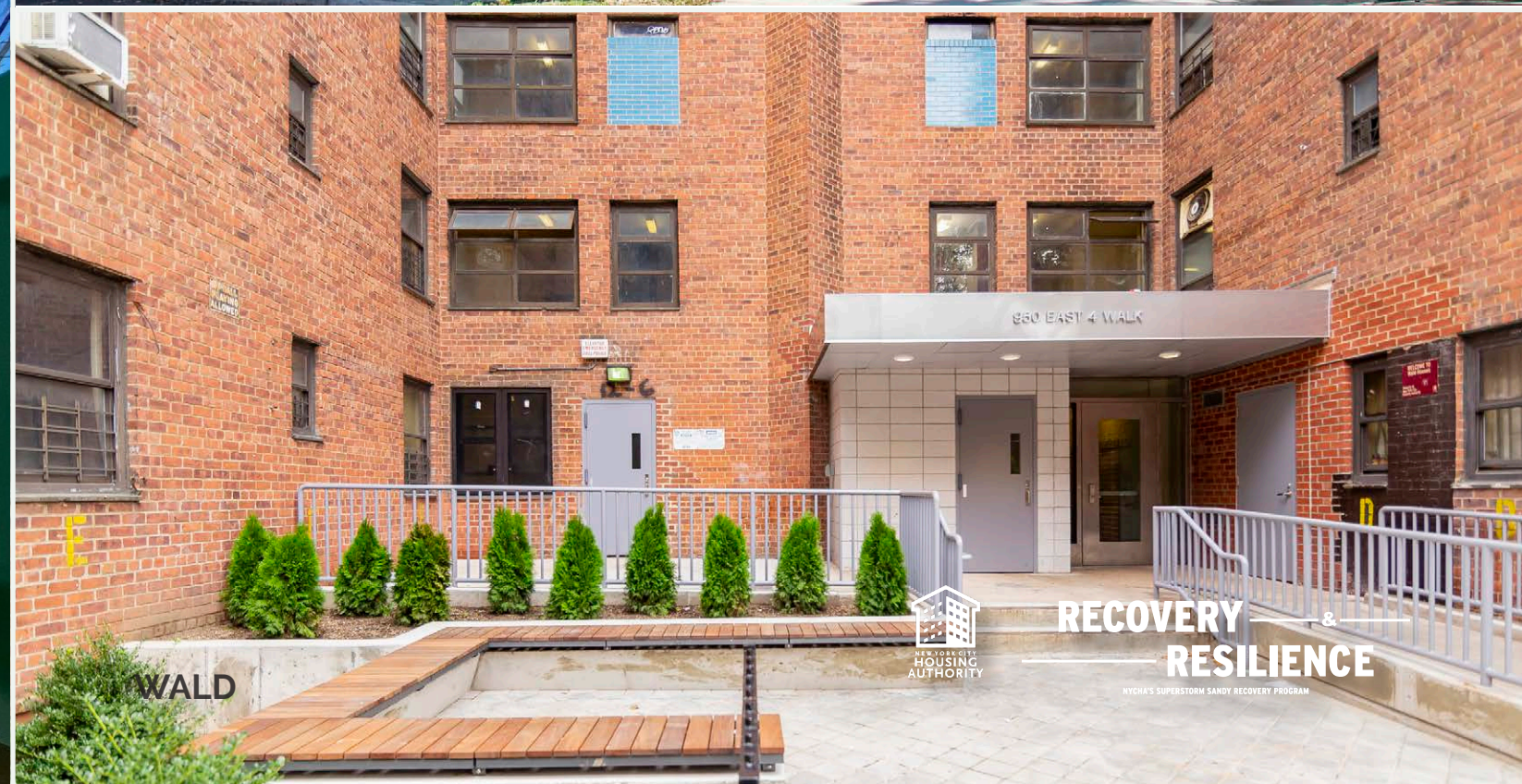
RED HOOK EAST AND WEST



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RED HOOK EAST AND WEST



WALD



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BARUCH



TWO BRIDGES



RANGEL



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