

Ewen Park

EWEN PARK STAIRCASE RECONSTRUCTION Bounded by Riverdale Avenue, Johnson Avenue, South of West 232nd Street, in the Borough of the Bronx

In House Design September 22, 2022

Abel Bainnson Butz, LLP

Total Budget: \$4.0M CM Dinowitz FY22

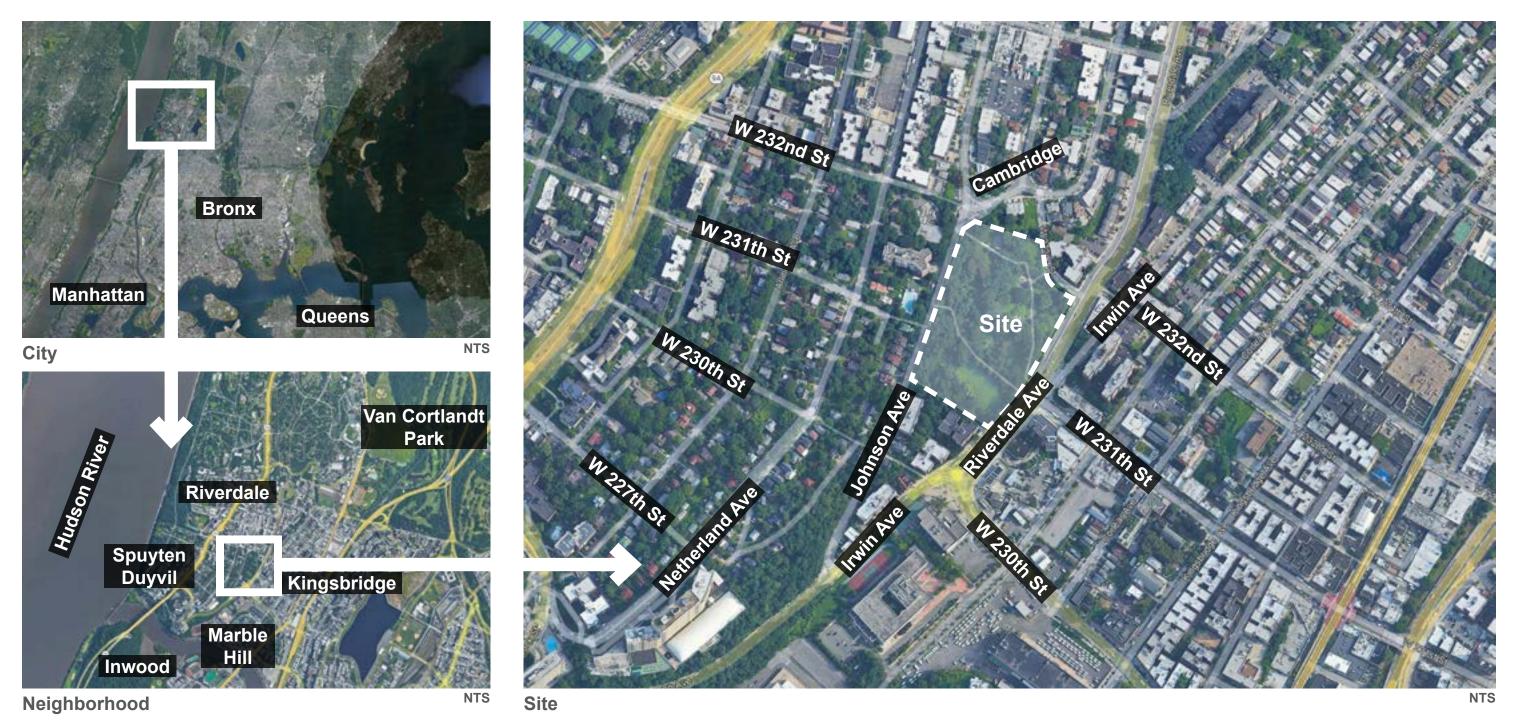
Project Size: 0.3 Acre

Goals

- Provide safe & code compliant stairway.
- Provide adequate lighting.
- Preserve the existing stepped walkway.



2



NYC Parks

Ewen Park | Project Location



Ewen Park | Flood Risk (Coastal)

NYC Parks

Flood Hazard Zones

2015 Preliminary Flood Insurance Rate Map

V Zone (100-year floodplain subject to wave action)

Areas along coasts subject to inundation by the 1% annual chance flood event with additional hazards associated with storm-induced waves.

A Zone (100-year floodplain)

Areas subject to inundation by the 1% annual chance flood

Shaded X Zone (500-year floodplain)

Areas within the 0.2% annual chance floodplain, areas of 1% annual chance flooding where average depths are less than 1 foot, areas of 1% annual chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1% annual chance flood by a levee.

Limit of Moderate Wave Action (LiMWA)

The inland limit of the area expected to receive 1.5ft or greater breaking waves during the 1% annual chance flood event. Data from 2015 PFIRMs.

Future Floodplain 2050s

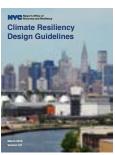
Future 1% Annual Chance Floodplain (100-year)

Future 0.2% Annual Chance Floodplain (500-year)

Resources (Links):



NYC Parks: Design **Flood Resiliency**



NYC MOCR: Climate **Resiliency Design** Guidelines (v4.0)





Ewen Park | Flood Risk (Stormwater)

NYC Parks

NYC Stormwater Flood Maps (Moderate Flooding)

Area not included in analysis

Future High Tides 2050

National Wetlands Inventory

Deep and Contiguous Flooding (1ft and greater)

Nuisance Flooding (greater or equal to 4 in and less than 1 ft)

Reflects roughly two inches of rain falling in one hour (also referred to as the 10-year storm, with approximately 10 percent chance of occurrence in any given year)

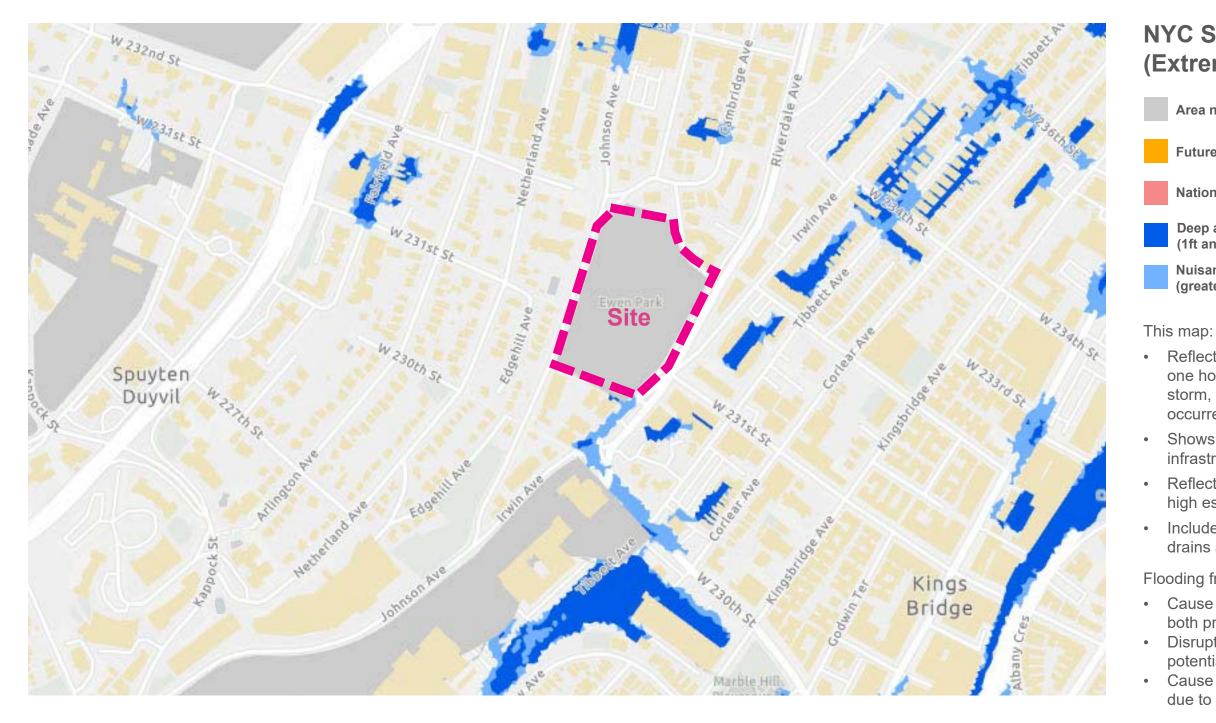
Shows a moderate rainstorm that City infrastructure was not designed to handle.

Reflects 2.5 feet of sea level rise, which is a high estimate for the 2050s.

Includes impacts of potential blocked storm drains and outfalls from sea level rise.

Flooding from a storm like this would temporarily disrupt transportation and enter buildings and basements, causing minor damages to contents





Ewen Park | Flood Risk (Stormwater)

NYC Parks

NYC Stormwater Flood Maps (Extreme Flooding)

Area not included in analysis

Future High Tides 2080

National Wetlands Inventory

Deep and Contiguous Flooding (1ft and greater)

Nuisance Flooding (greater or equal to 4 in and less than 1 ft)

Reflects roughly 3.5 inches of rain falling in one hour (also referred to as the 100 year storm, with approximately 1 percent chance of occurrence in any given year).

Shows an extreme rainstorm that City infrastructure was not designed to handle.

Reflects 4.8 feet of sea level rise, which is a high estimate for the 2080s.

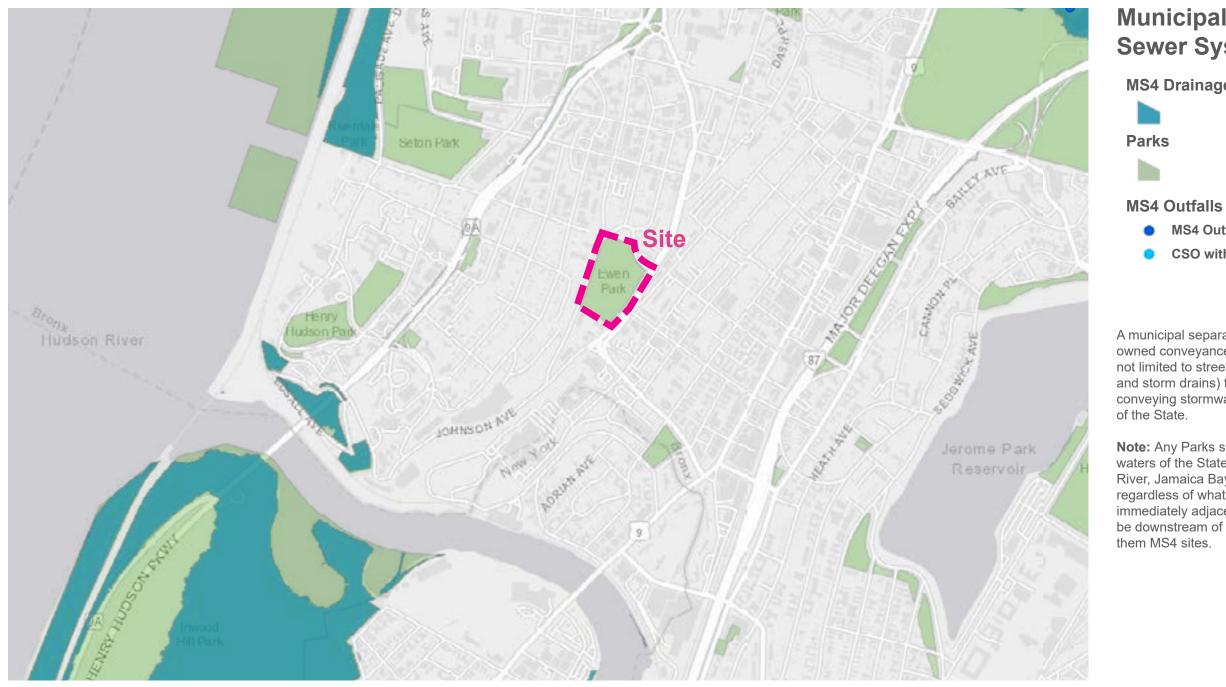
Includes impacts of potential blocked storm drains and outfalls from sea level rise.

Flooding from a storm like this would:

Cause widespread damage and disruption to both private and public property.

• Disrupt roads, subways, regional rail, and potentially power/communication networks. Cause flooding across coastal neighborhoods due to sea level rise impacts.







Ewen Park | Municipal Separate Storm Sewer System (MS4)

Municipal Separate Storm Sewer System (MS4) Legend:

MS4 Drainage Areas

MS4 Outfall **CSO with MS4 Connection**

A municipal separate storm sewer system (MS4) is a publiclyowned conveyance or system of conveyances (including but not limited to streets, ditches, catch basins, curbs, gutters, and storm drains) that is designed or used for collecting or conveying stormwater and that discharges to surface waters

Note: Any Parks site that directly discharges to surface waters of the State (e.g. East River, Harlem River, Hudson River, Jamaica Bay, Atlantic Ocean) is an MS4 site regardless of what the MS4 map shows. Parks properties immediately adjacent to or near bodies of water are likely to be downstream of combined sewer regulator points, making





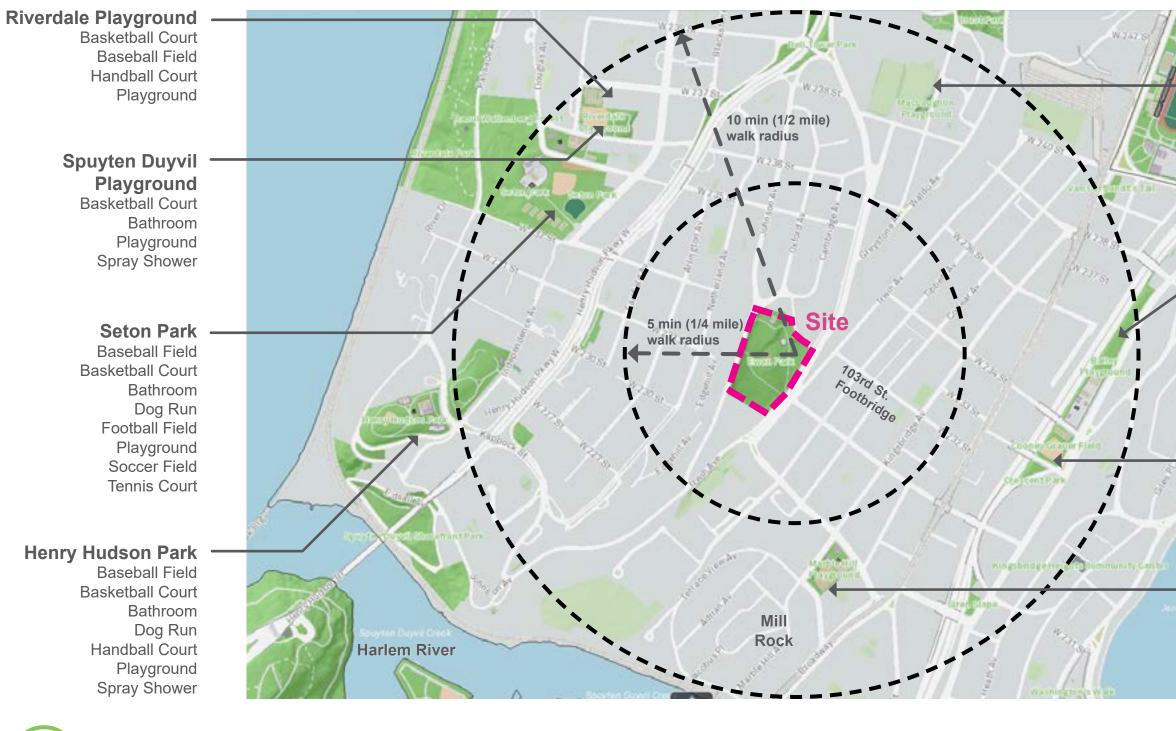
Ewen Park | Surrounding Land Use

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Land Use Categories

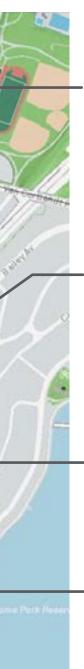
1 And 2 Family Residential
Multi-Family Residential Walk-Up
Multi-Family Residential Elevator
Mixed Residential & Commerical
Commercial & Office Buildings
Industrial & Manufacturing
Transportation & Utility
Public Facilities & Institutions
Open Space & Outdoor Recreation
Parking Facilities
Vacant Land
Other







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MacLaughlin Playground Playground Spray Shower

Bailey Playground

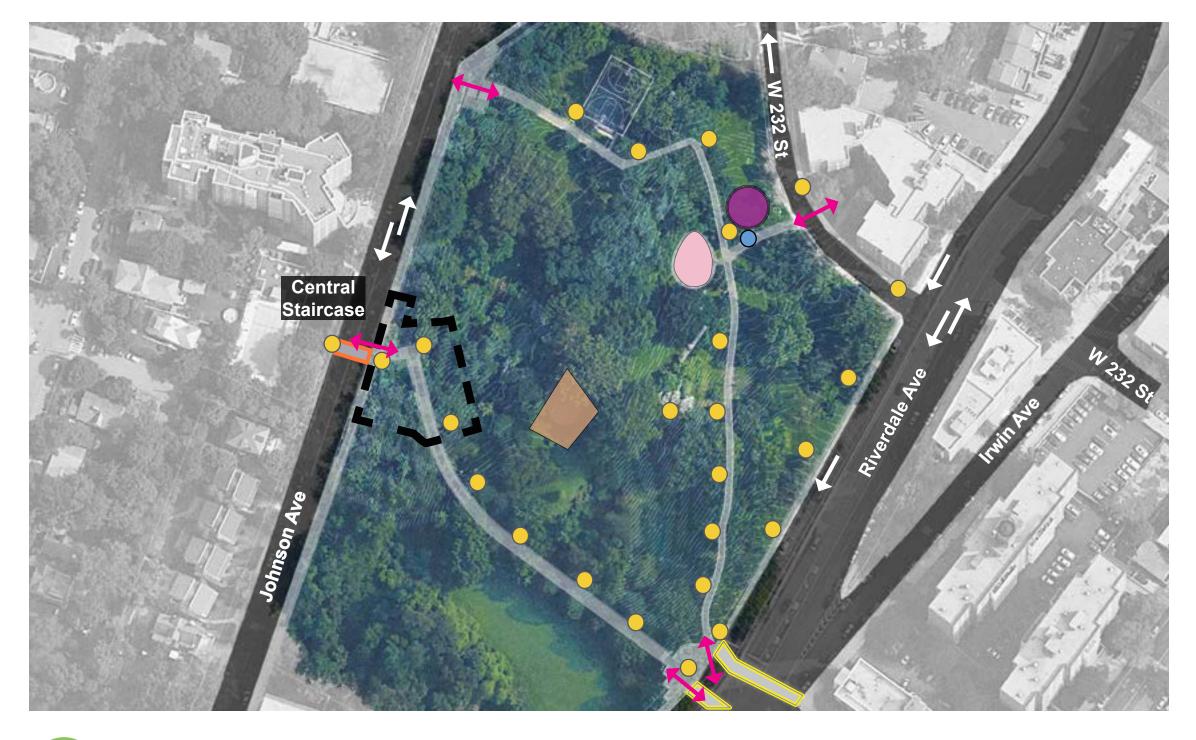
Basketball Court Bathroom Handball Court Playground Spray Shower

Cooney Grauer Field Baseball Field

Marble Hill Playground

Basketball Court Bathroom Playground Spray Shower



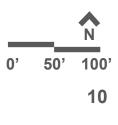


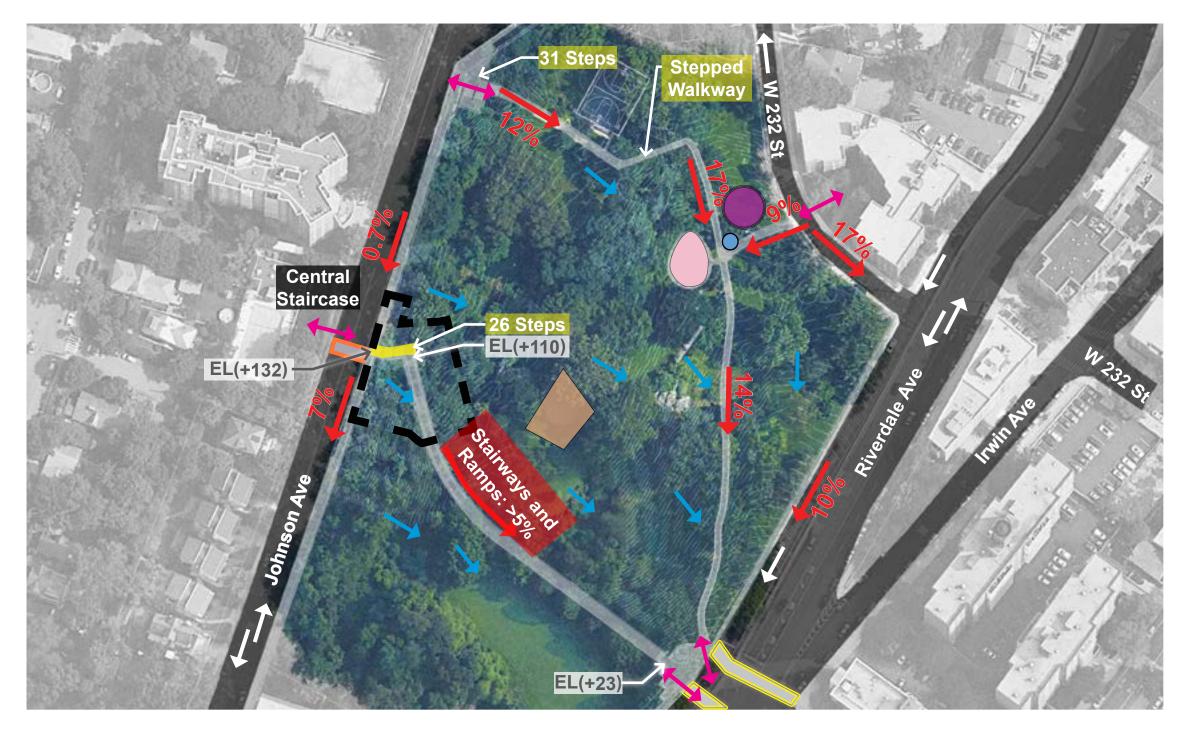


Ewen Park | Existing Conditions

<u>Legend</u>







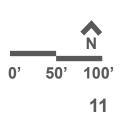


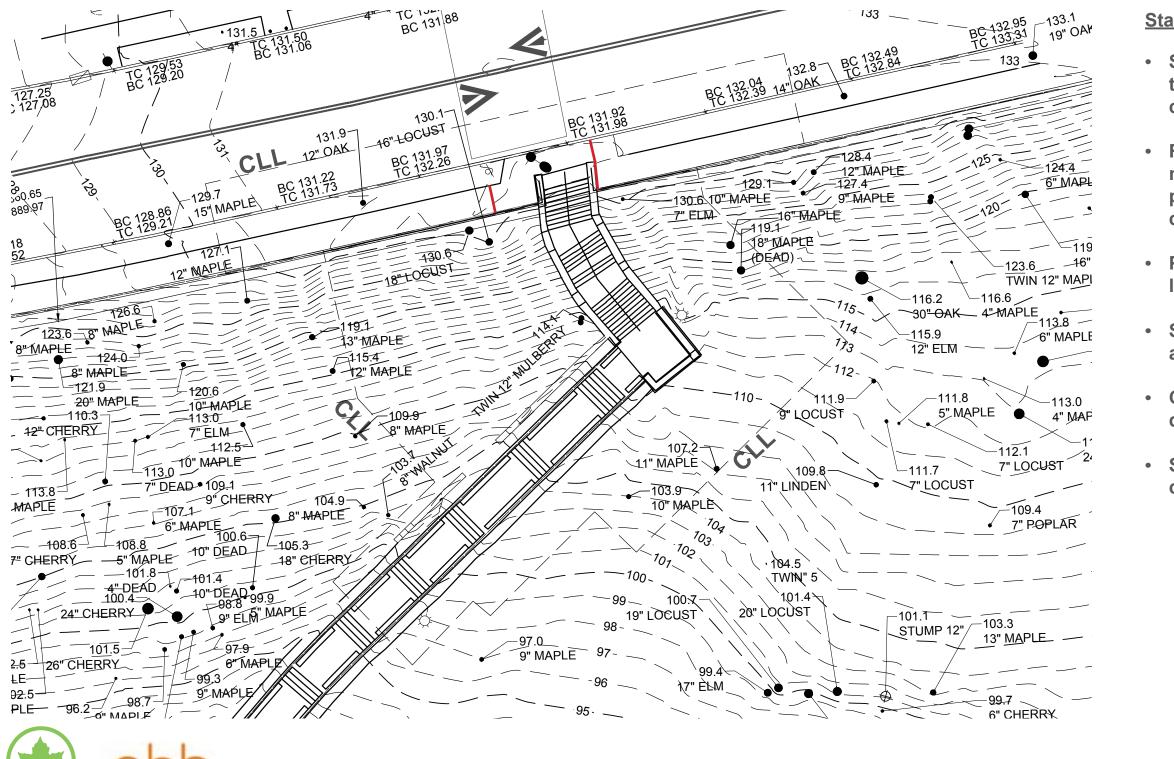
<u>Legend</u>



Heat Vulnerability Index

Site is/ is not in high HVI area.





Ewen Park | **Existing Staircase Conditions**

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Staircase Safety Concerns:

Staircase encroachment into the sidewalk; poor pedestrian circulation

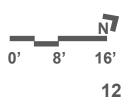
 Risers, treads and railings are not code compliant, in very poor condition; uneven surface conditions

Poor visibility; Inadequate lighting

Steep adjacent slopes- erosion and difficult site access

 Concentrated drainage flow down full length of stairway

Stepped walkway railings are not code compliant



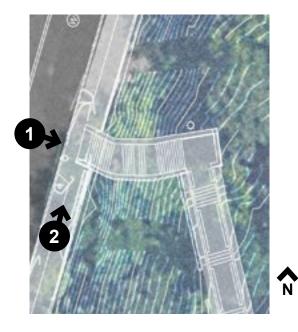




1 - Johnson Ave. Entry

2 - Johnson Ave. Entry looking north





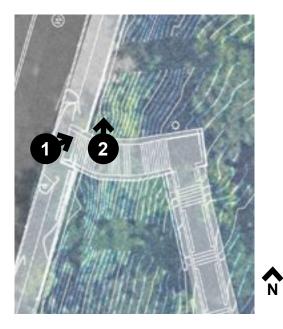


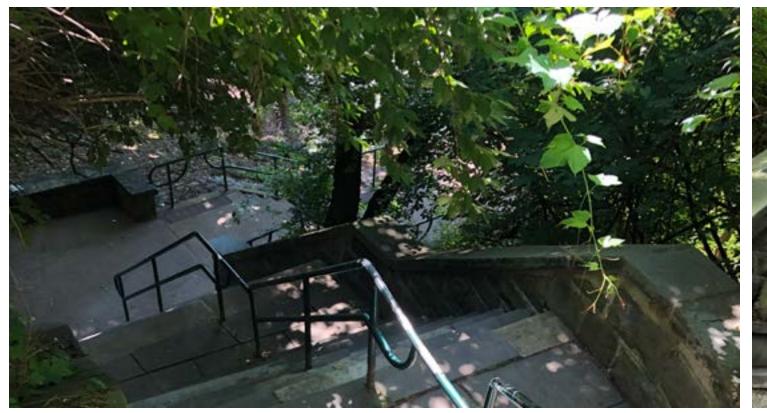
1 - Looking at entry cheekwall and sidewalk railing and curb wall

2 - Looking north along Johnson Ave at railing and curb wall







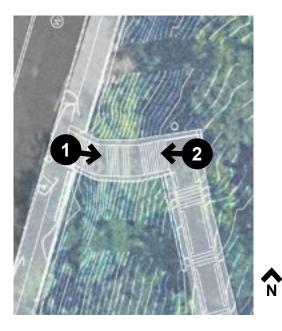


1 - Looking down stair

2 - Looking up stairway









1 - Looking down at bottom landing entry

2 - Landing details





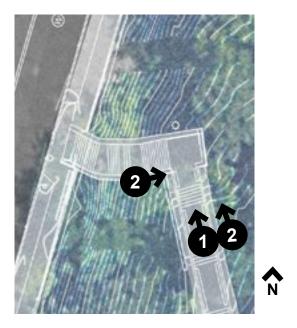




1 - Looking at lower entry landing at stepped walkway

2 - Looking at bottom landing, southeast corner condition





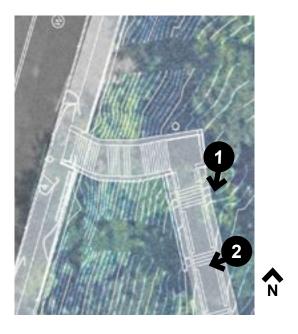


1 - Looking southwest at slope along stepped walkway

2 - Retaining wall at slope base





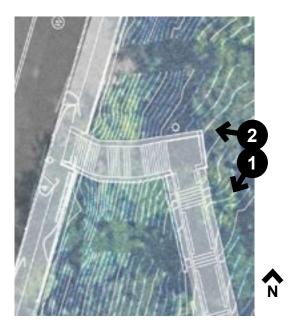


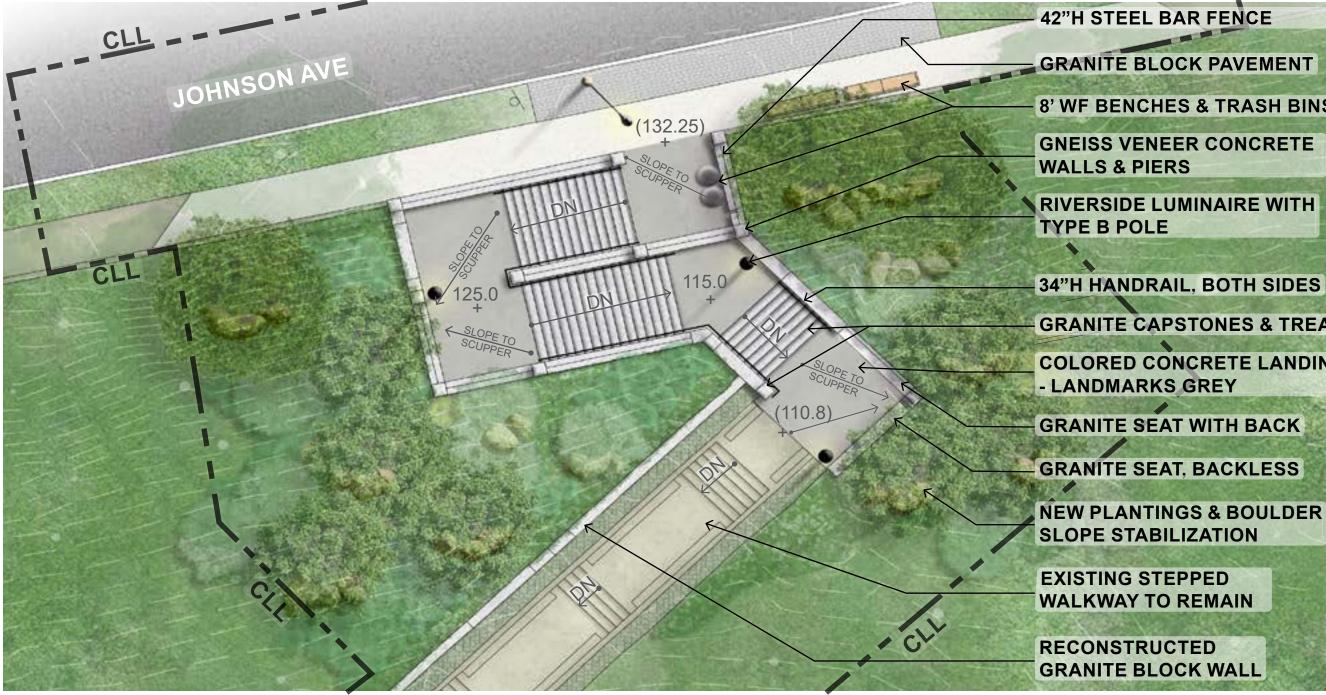


1 - Looking west at stairway from adjacent area linking to Walk

2 - Looking west towards slope north of stairway









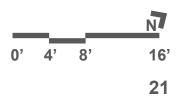
Ewen Park | Preliminary Staircase Plan

8' WF BENCHES & TRASH BINS

GNEISS VENEER CONCRETE

GRANITE CAPSTONES & TREADS COLORED CONCRETE LANDINGS

NEW PLANTINGS & BOULDER











42"H STEEL BAR FENCE

GNEISS VENEER CONCRETE

RIVERSIDE LUMINAIRE WITH

COLORED CONCRETE LANDINGS

GRANITE CAPSTONES & TREADS

NEW PLANTINGS & STABILIZATION

GRANITE SEAT











GRANITE TREADS AND CAPSTONES



GNEISS VENEER WALLS, MATCH EXISTING



CONCRETE PAVEMENT -LANDMARKS GREY







1939 WORLD'S FAIR BENCH W/ BACK AND ARMS, **RPL SLATS**



RIVERSIDE LUMINAIRE WITH B POLE POST



PIPE HANDRAIL





Ewen Park | Site Materials



3'-6" HT. STEEL BAR FENCE



TRASH BINS



Quercus alba



Rhus aromatica 'Gro-Low'



Amelanchier laevis



Crataegus viridis 'Winter King'



Polystichum acrostichoides



Viburnum prunifolium



Aquilegia canadensis



Ewen Park | Plant Material





Hydrangea arborescens



Eurybia divaricata





Ewen Park | Preliminary Staircase Plan

