



SOURCE FOR STREAM

2026 Conference

Canada's Premier
Stormwater and Erosion
and Sediment Control
Conference

Thank you to our sponsors!

EXECUTIVE SPONSORS



MEDIA SPONSORS



HOSTS

Presented by:



In association with:



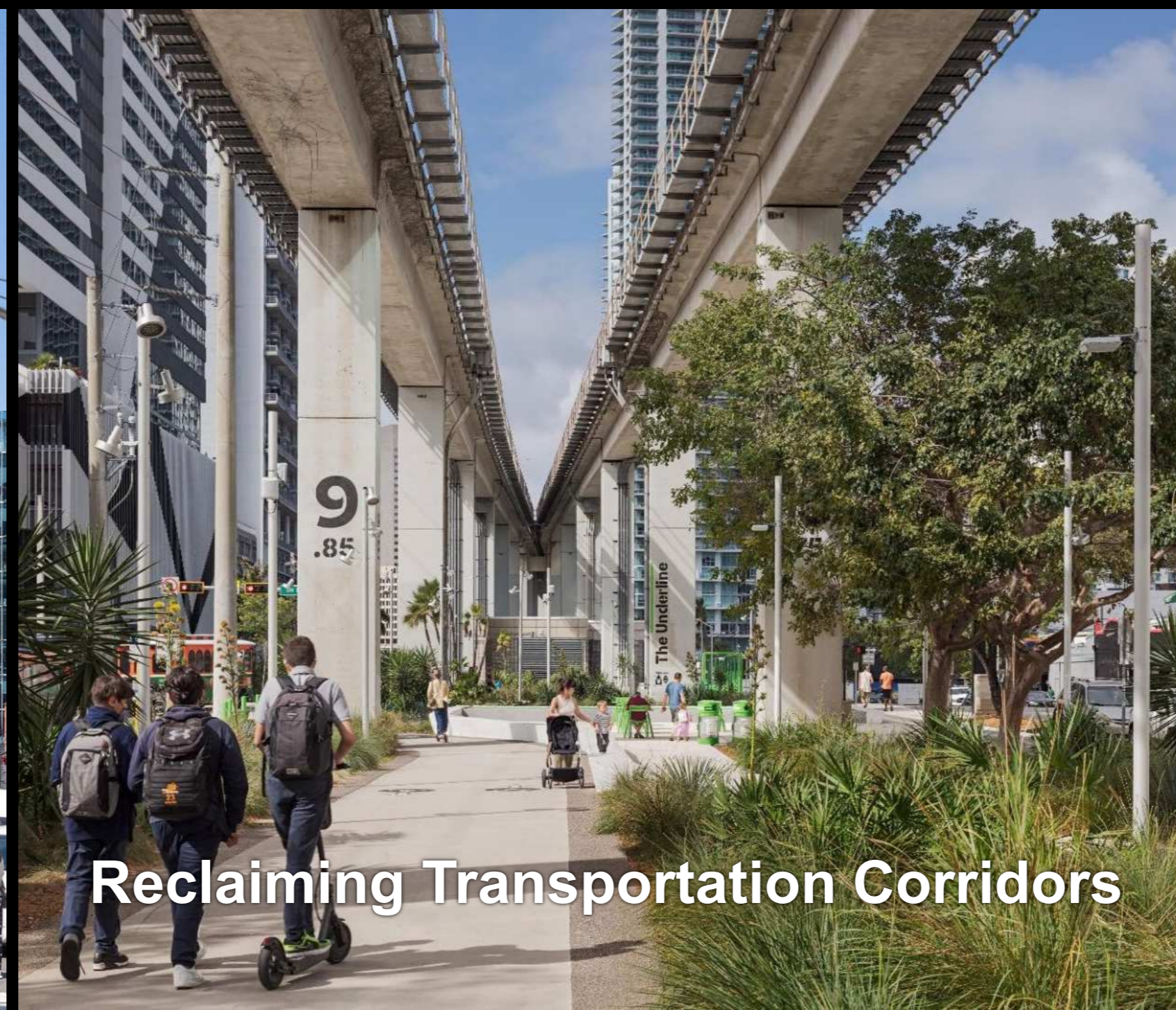
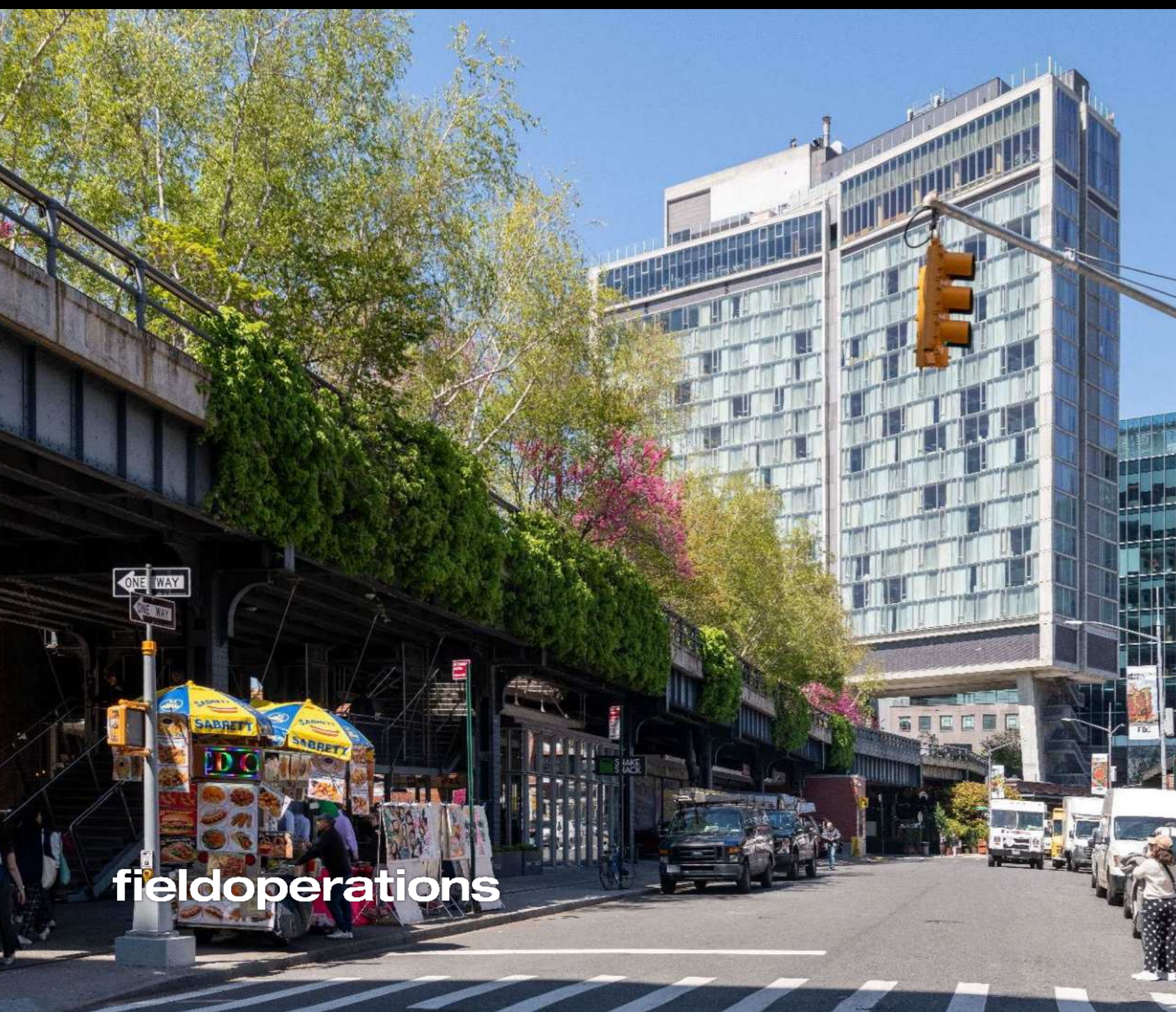
Reclaiming Transportation Corridors as Performative Landscapes

Stormwater Management in Linear Parks: Lessons from Case Studies

March 31 2026

Source to Stream Conference`

Isabel Castilla
fieldoperations



fieldoperations

Reclaiming Transportation Corridors

THE HIGH LINE

NEW YORK, NY

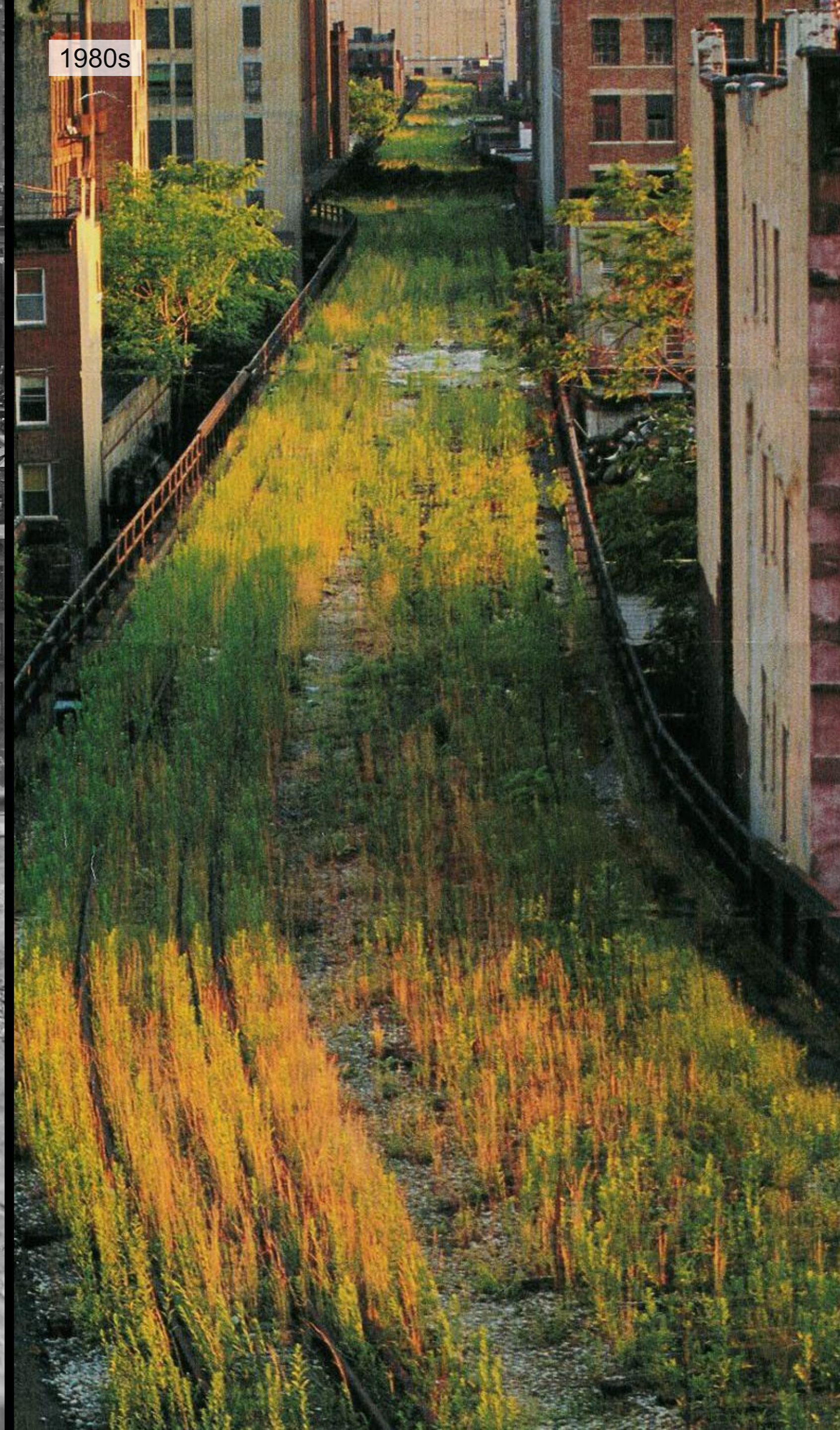
fieldoperations



1930s



1980s



Today



fieldoperations

THE HIGH LINE IS LINEAR PARK, BUILT ON AN ABANDONED, ELEVATED RAIL TRACK



30- FEET ABOVE THE STREET
30- FEET WIDE ON AVERAGE



7 ACRES
1.5 MILES LONG
23-CITY BLOCKS



**VISITED BY OVER 8 MILLION PEOPLE A YEAR,
HOME TO A DIVERSE SUITE OF PUBLIC
PROGRAMS, WORLDCLASS ARTWORK AND
PERFORMANCES**



**20 YEARS AFTER IT'S CONCEPTION,
THE HIGH LINE CONTINUES TO SHAPE URBAN
SPACES, DRIVE INVESTMENT AND INSPIRE CITIES
AROUND THE WORLD**



**FEATURES OVER 500+ SPECIES OF PLANTS
AND TREES, SEQUESTERS OVER
1.3 TONS OF ATMOSPHERIC CARBON**



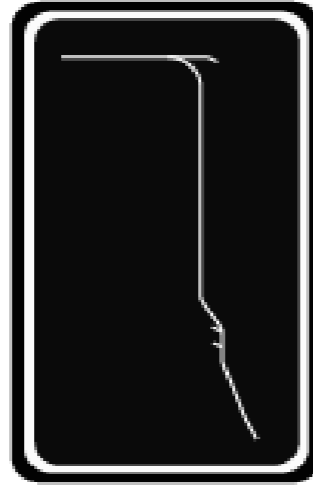


The High Line
New York, New York

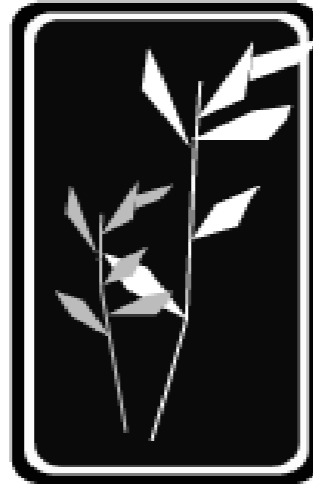


The High Line
Found Conditions

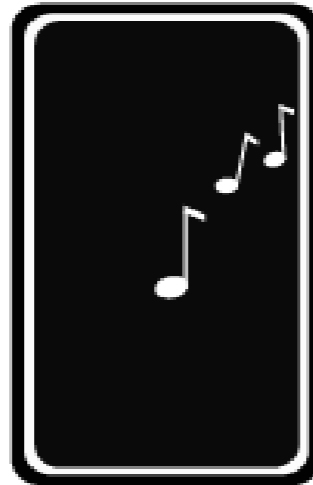
KEEP IT SIMPLE



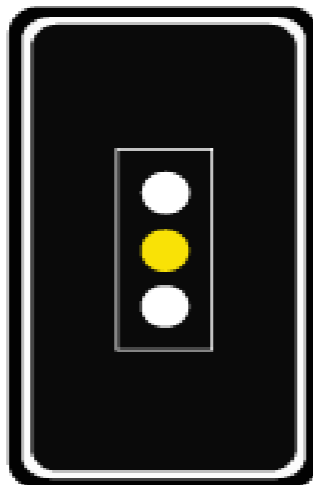
KEEP IT WILD



KEEP IT QUIET



KEEP IT SLOW



The High Line
Design Framework

KEEPED

IT

WITTED

The High Line
Design Framework

Physiognomic Vegetation Zones

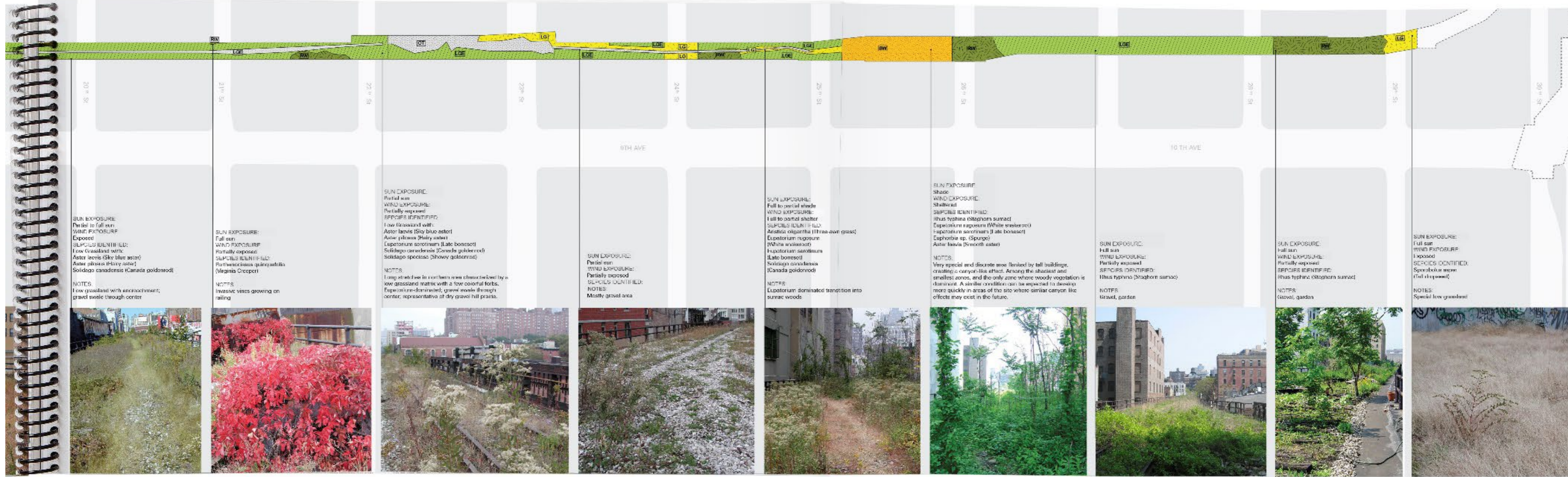
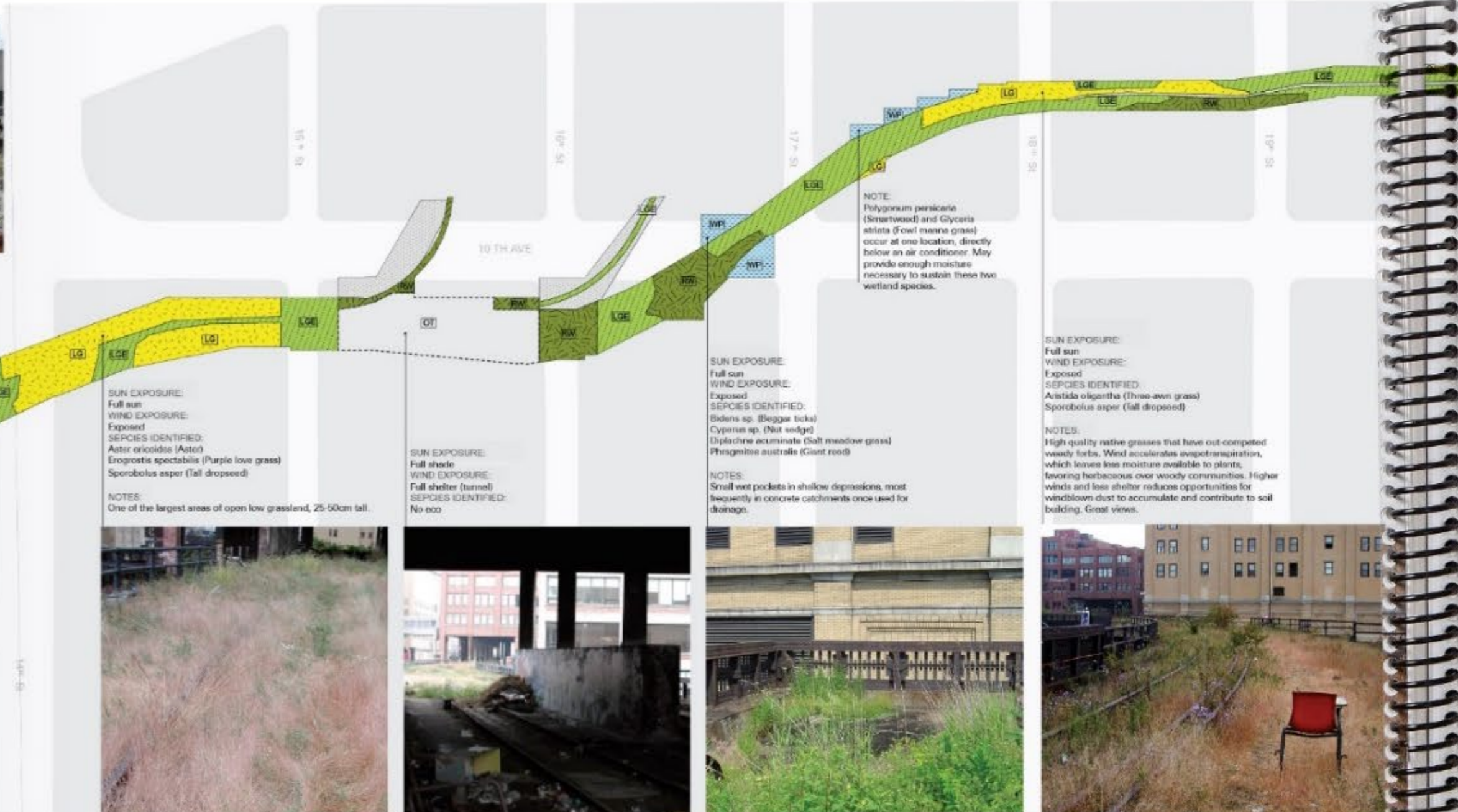
- RW** RANK WEED: early successional weed species
- LG** LOW GRASSLAND: predominantly native grasses
- LGE** LOW GRASSLAND WITH ENCROACHMENT: intermediate zone between rank weed and low grassland communities
- SW** SUMAC WOODS: shady zone with woody vegetation as the dominant species
- WP** WET POCKETS: wet areas in shallow depressions
- OT** OTHER: gravel, moss, debris, or covered tunnel areas



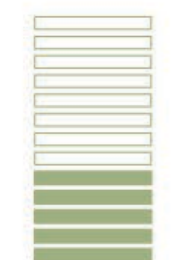
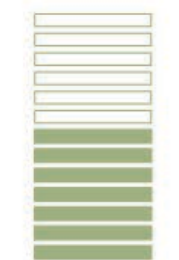
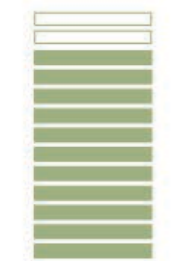
SUN EXPOSURE: Shady to full shade
WIND EXPOSURE: Partially exposed
SPECIES IDENTIFIED: *Collinsia orbiculata* (Chinese bitterroot), *Pentstemon quinquefolia* (Virginia creeper)
NOTES: Largest rank weed zone, located at the southern end; dominated by invasive vines that commonly occur in disturbed landscapes.

SUN EXPOSURE: Partial to full sun
WIND EXPOSURE: Exposed
NOTES: Moss, gravel, rocks, glass

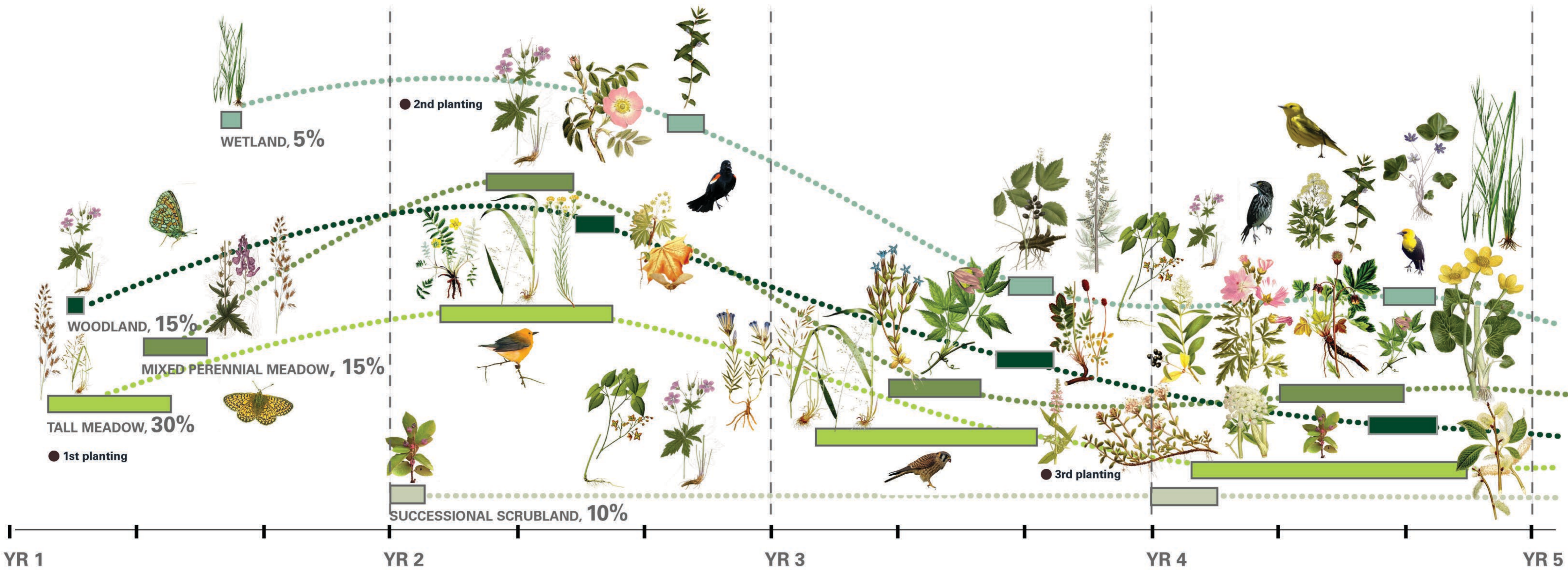
SUN EXPOSURE: Full sun
WIND EXPOSURE: Exposed
NOTES: Decked over, no eco; exposed rat ties (no rail), with mosses, wood pile



HIGH



LOW



The High Line
New York, New York



WHAT WILL GROW HERE ?

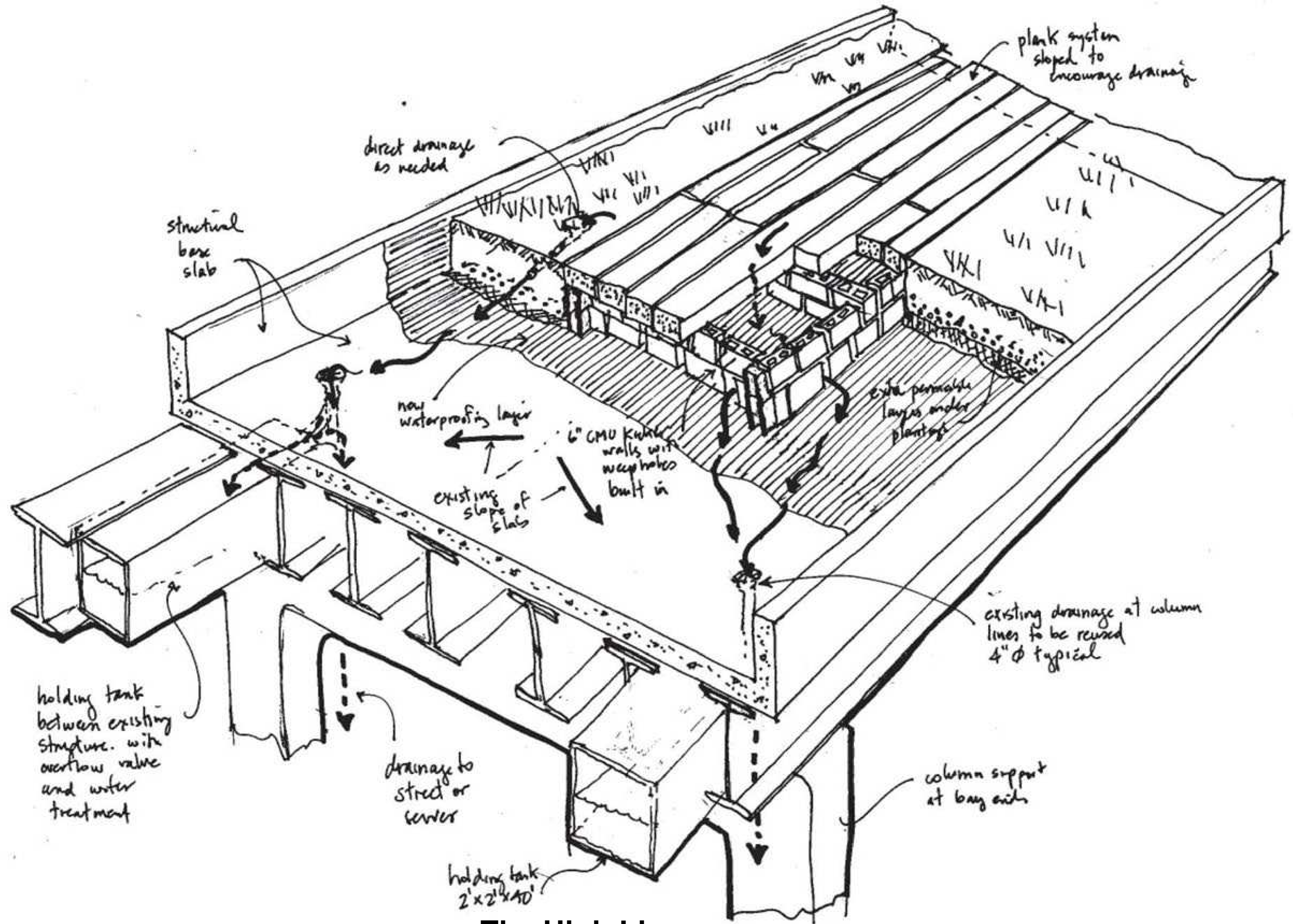


fieldoperations

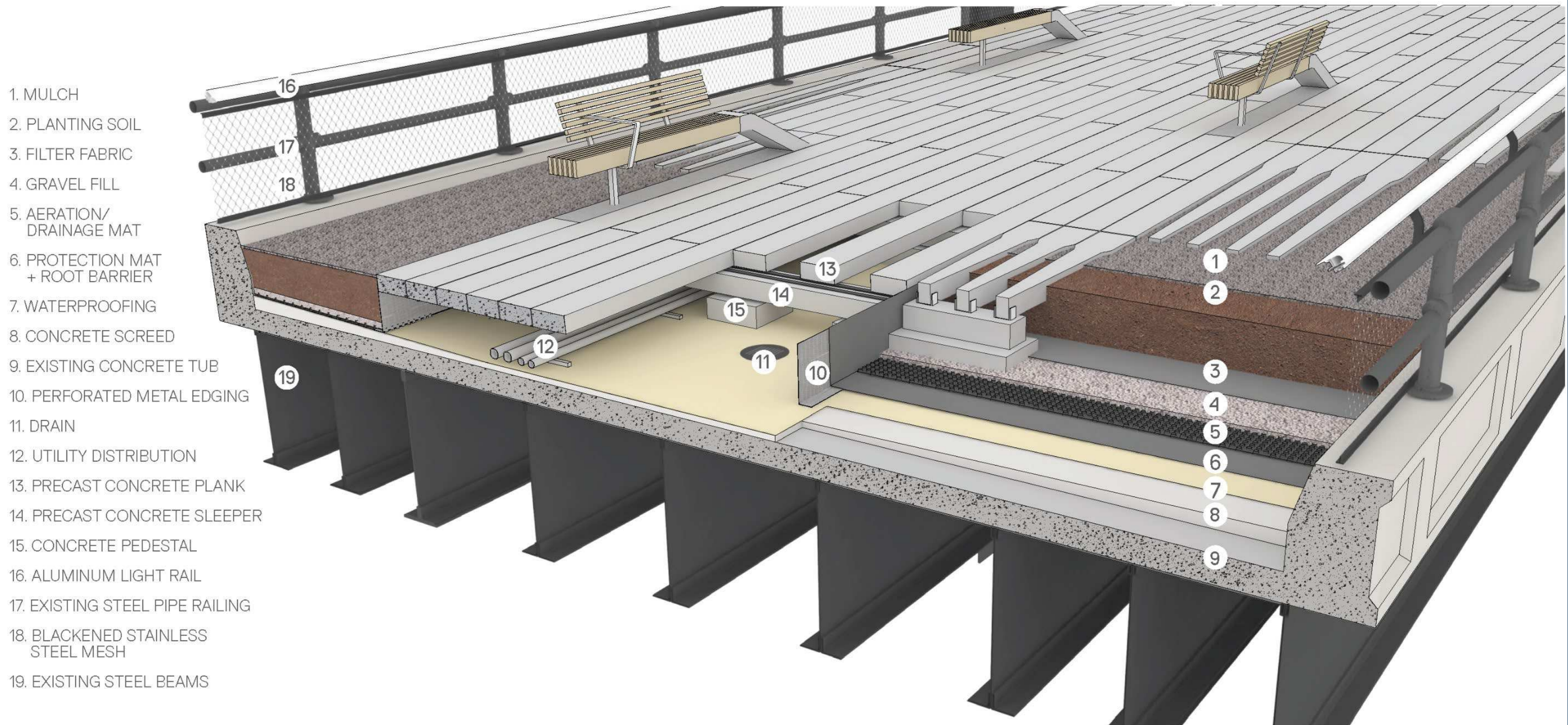
The High Line
New York, New York





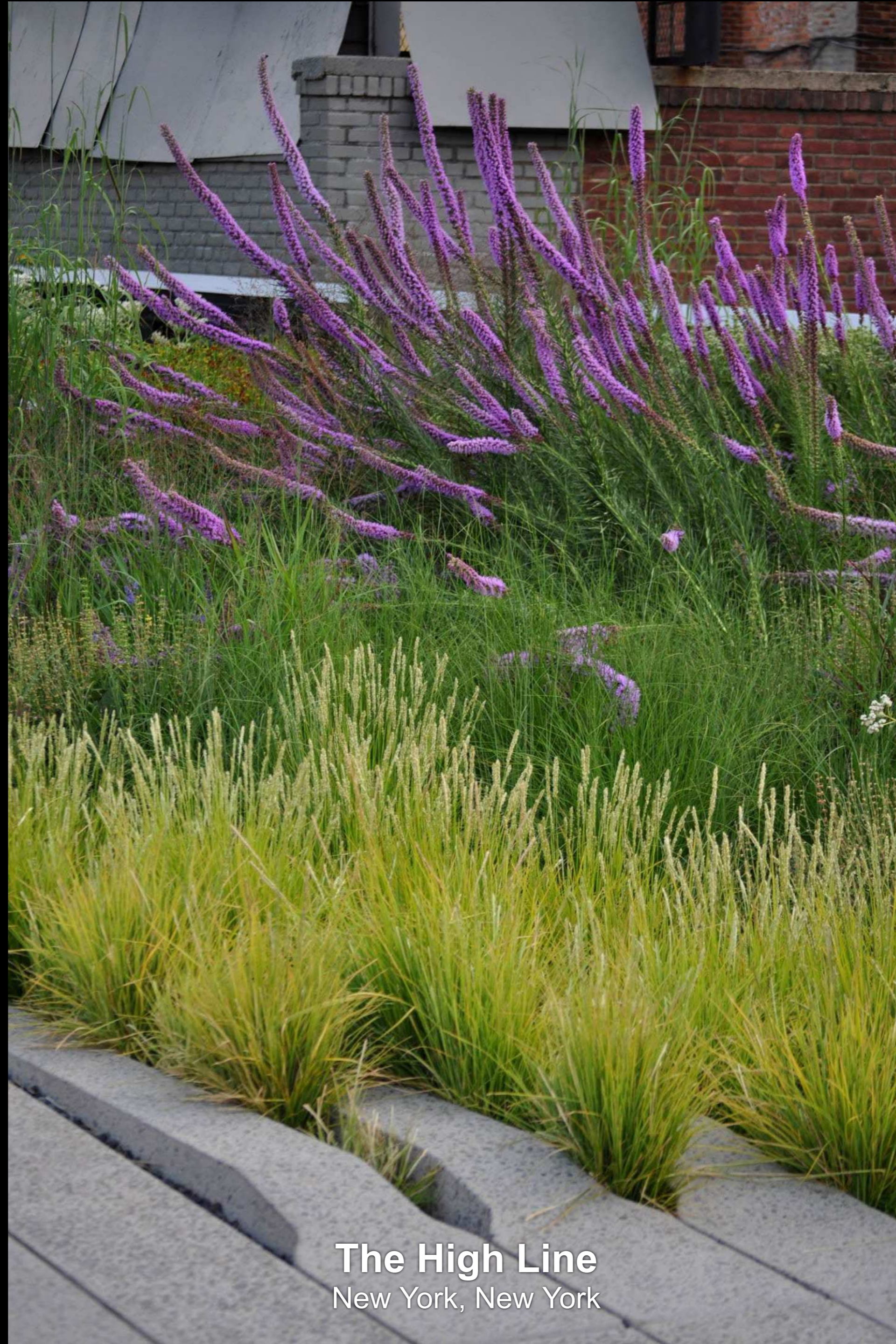


The High Line
Initial Concepts



1. MULCH
2. PLANTING SOIL
3. FILTER FABRIC
4. GRAVEL FILL
5. AERATION/
DRAINAGE MAT
6. PROTECTION MAT
+ ROOT BARRIER
7. WATERPROOFING
8. CONCRETE SCREED
9. EXISTING CONCRETE TUB
10. PERFORATED METAL EDGING
11. DRAIN
12. UTILITY DISTRIBUTION
13. PRECAST CONCRETE PLANK
14. PRECAST CONCRETE SLEEPER
15. CONCRETE PEDESTAL
16. ALUMINUM LIGHT RAIL
17. EXISTING STEEL PIPE RAILING
18. BLACKENED STAINLESS
STEEL MESH
19. EXISTING STEEL BEAMS

The High Line
Technical Build-Up



The High Line
New York, New York



The High Line
New York, New York



The High Line
New York, New York



The High Line
New York, New York

**THE HIGH LINE PLANTING BEDS AVERAGE
18-INCHES OF SOIL DEPTH AND FEATURE TREES
THAT HAVE GROWN UP TO 3 TIMES LARGER THAN
THEIR ORIGINAL SIZE AT PLANTING**



**IN TOTAL, THE PARK INTERCEPTS
OVER 24,340 GALLONS
OF STORMWATER ANNUALLY.**



THE UNDERLINE

MIAMI, FL

AIR BRICKELL
V LEASING
Y APARTMENTS
OLITAIR™ to 77599
LITAIR.COM



fieldoperations

Before



After



fieldoperations

The Underline
Miami, Florida

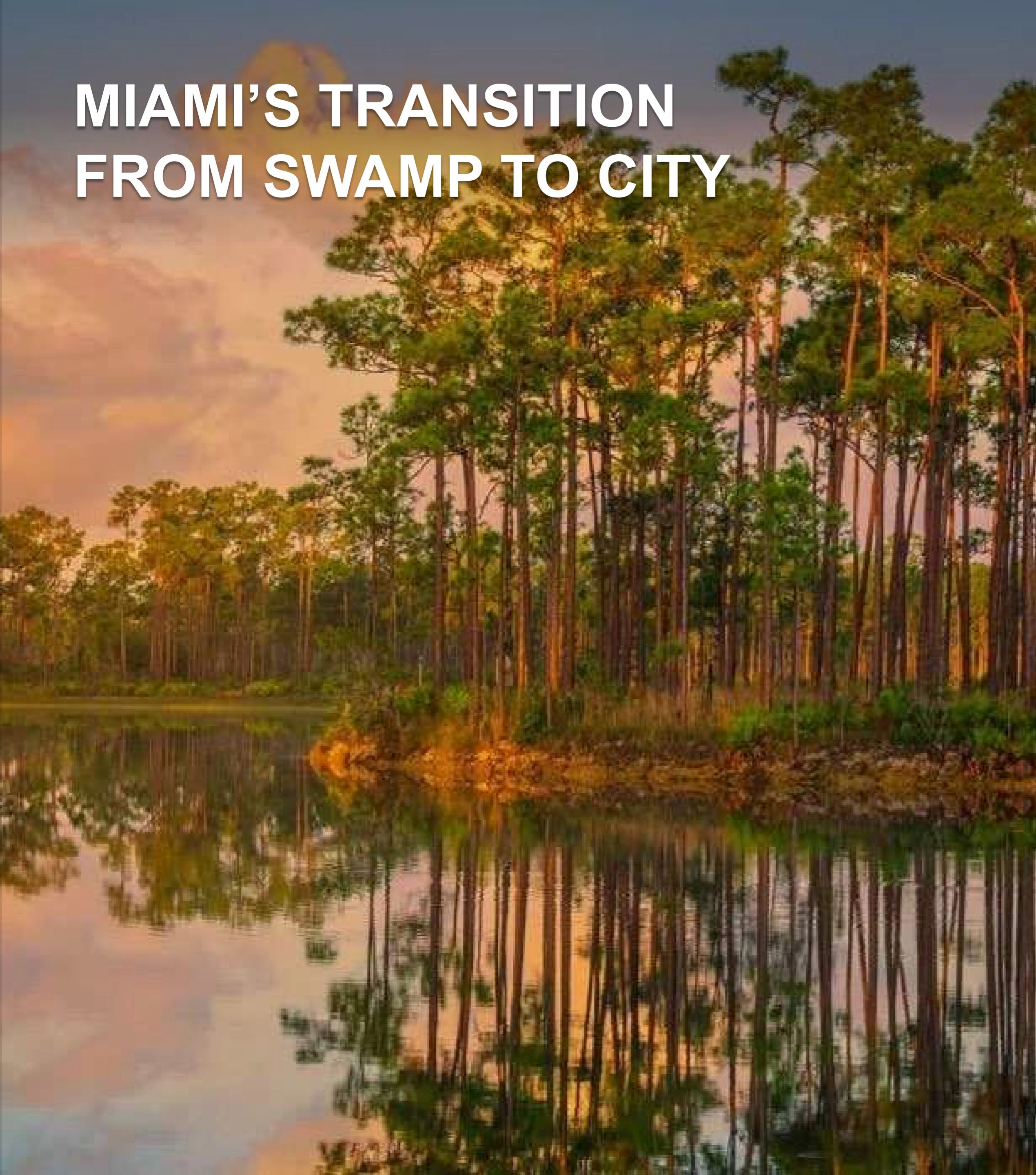
**ONCE COMPLETE,
THE UNDERLINE WILL TRANSFORM THE
UNDERUTILIZED SPACE UNDERNEATH AN
ACTIVE TRAIN TRACK INTO A LINEAR PARK**

The Underline
Miami, Florida

**10 MILES LONG
8 TRAIN STATIONS
3 MUNICIPALITIES**

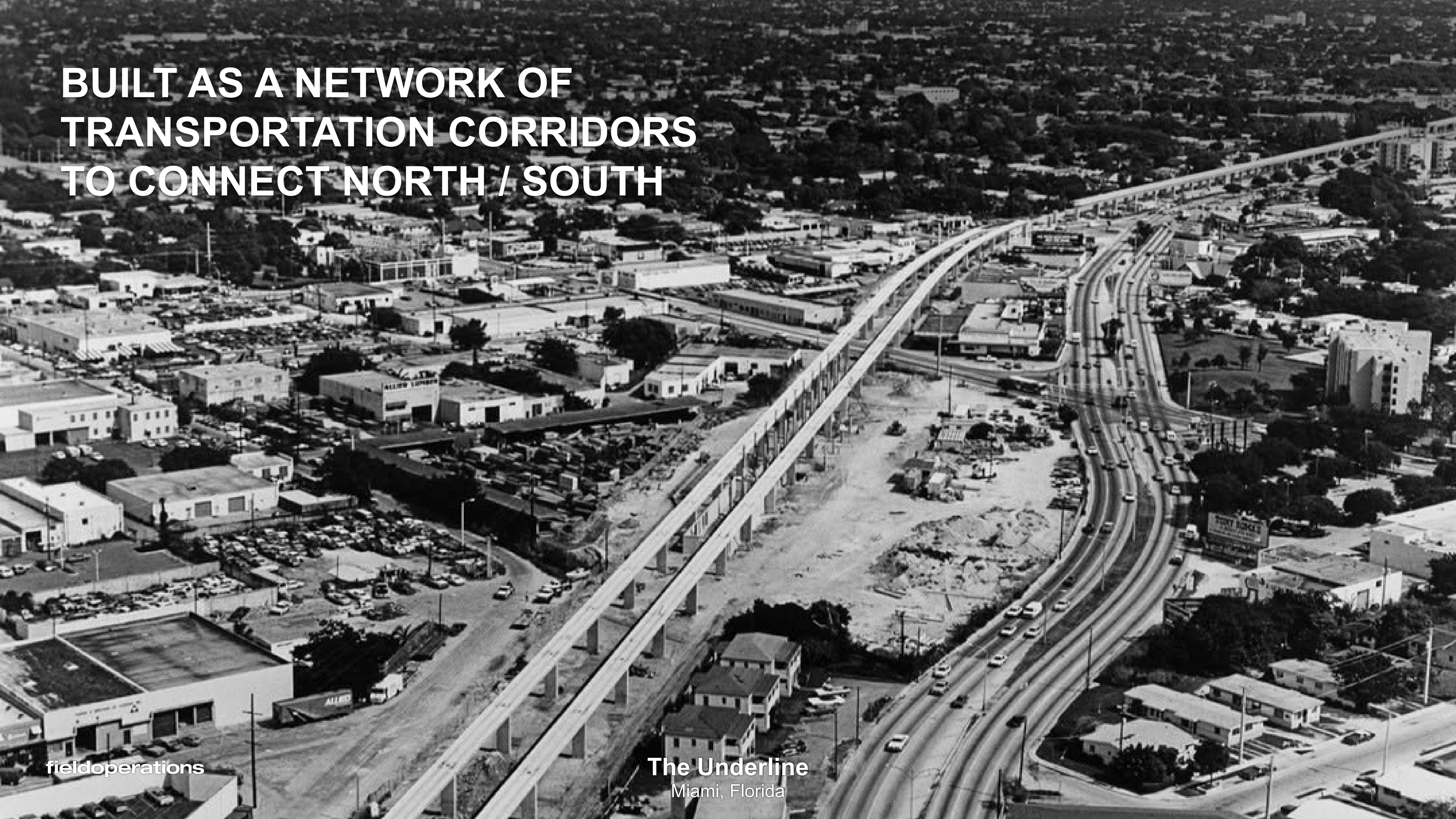


MIAMI'S TRANSITION FROM SWAMP TO CITY



**RAPID URBANIZATION AND LOSS
OF NATURAL HABITAT HAVE
REDUCED INFILTRATION
CAPACITY, INTENSIFYING URBAN
FLOODING**



An aerial, black and white photograph of a multi-lane highway interchange in an urban area. The highway curves through the city, with several lanes visible. The surrounding area is densely packed with buildings, parking lots, and trees. The text "BUILT AS A NETWORK OF TRANSPORTATION CORRIDORS TO CONNECT NORTH / SOUTH" is overlaid in large, white, bold, sans-serif font in the upper left quadrant.

**BUILT AS A NETWORK OF
TRANSPORTATION CORRIDORS
TO CONNECT NORTH / SOUTH**

fieldoperations

The Underline
Miami, Florida

**THE CORRIDOR FRAGMENTED
NATURAL SYSTEMS AND DISRUPTED
THE SITE'S NATURAL HYDROLOGY.**

RECLAIM



fieldoperations

RESTORE



The Underline
Miami, Florida

REWILD

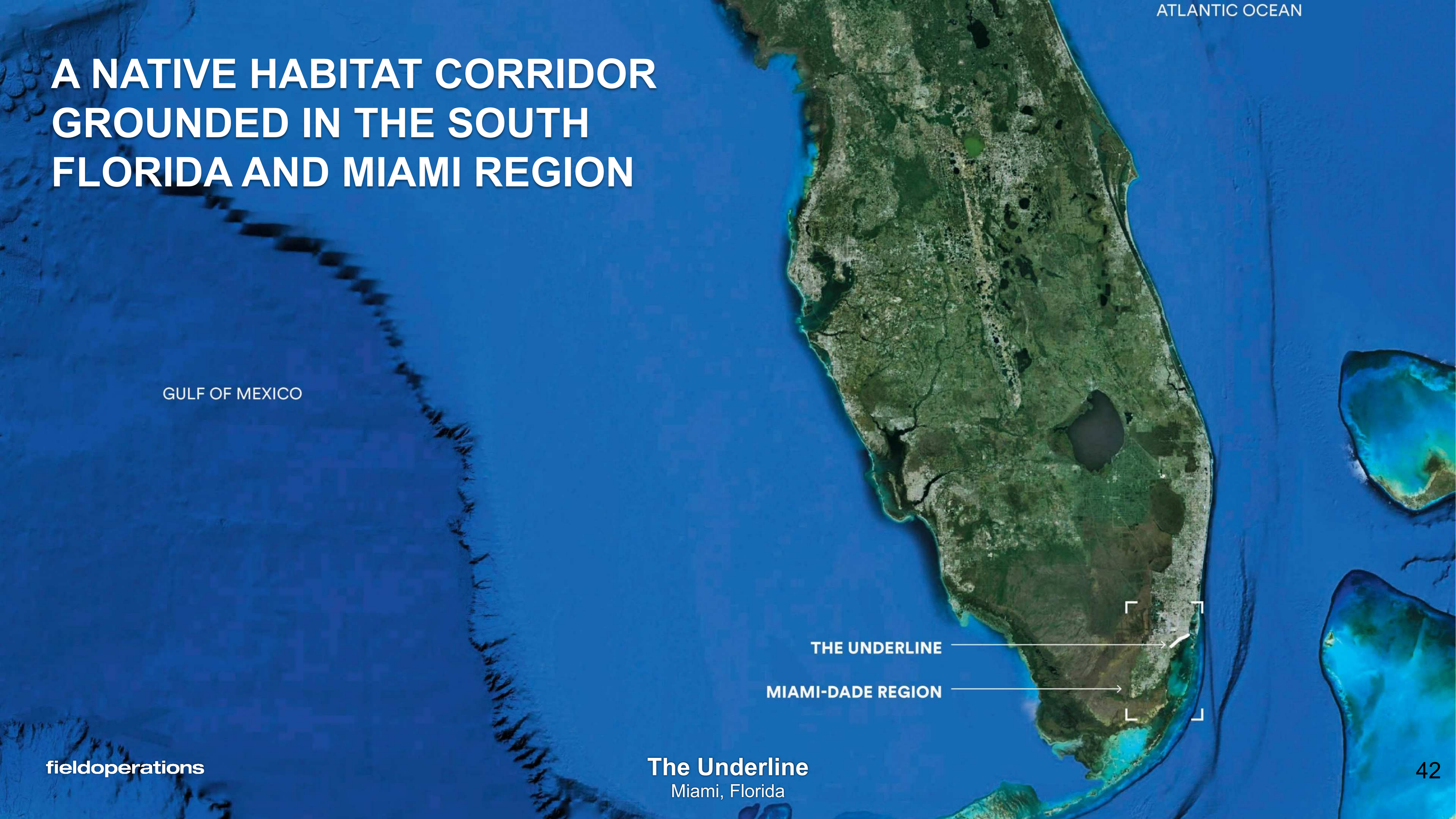


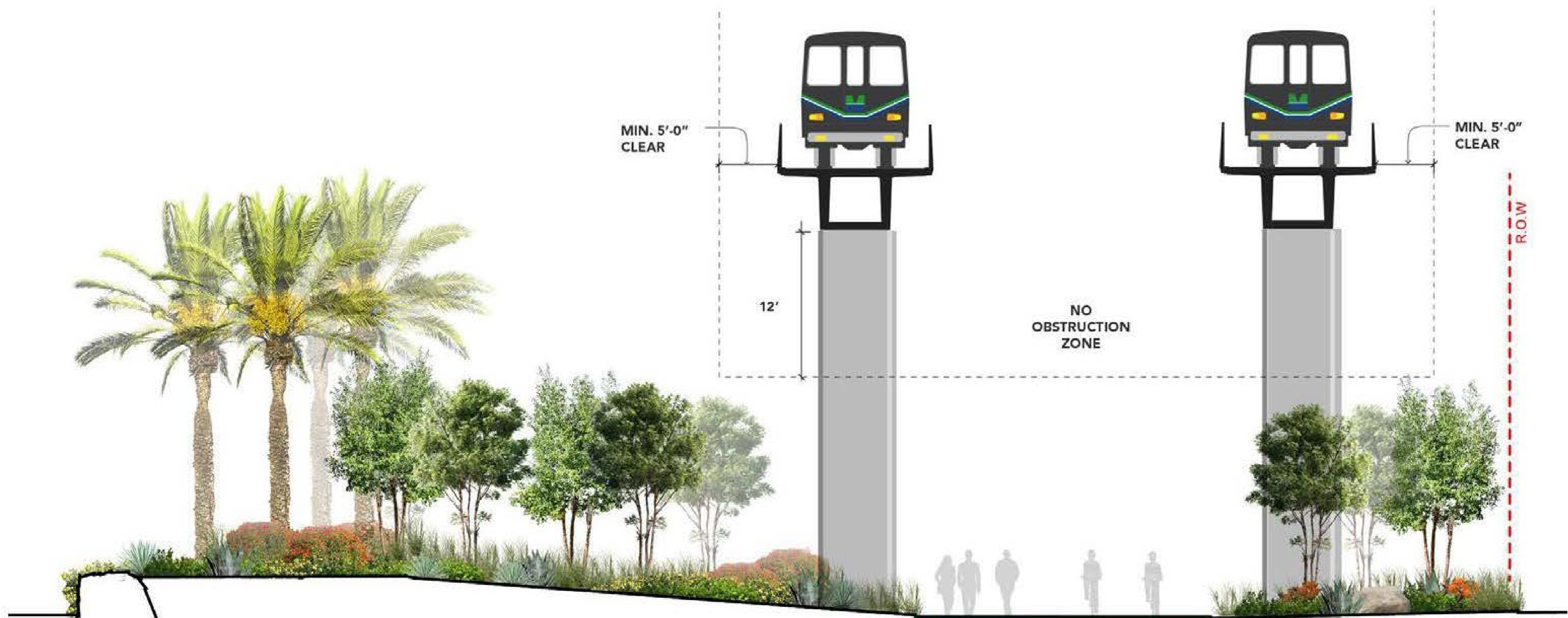
A NATIVE HABITAT CORRIDOR GROUNDED IN THE SOUTH FLORIDA AND MIAMI REGION

GULF OF MEXICO

THE UNDERLINE

MIAMI-DADE REGION





Lantana depressa
Pineland Lantana



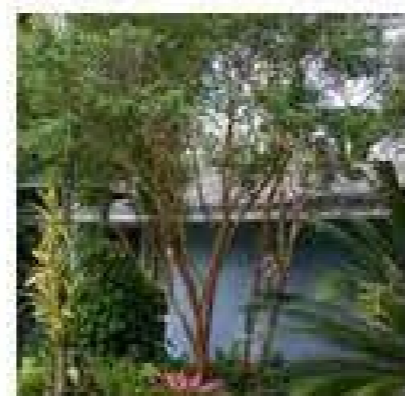
Hamelia patens
Firebush



Yucca filamentosa
Adam's Needle



Agave decipens
False Sisal



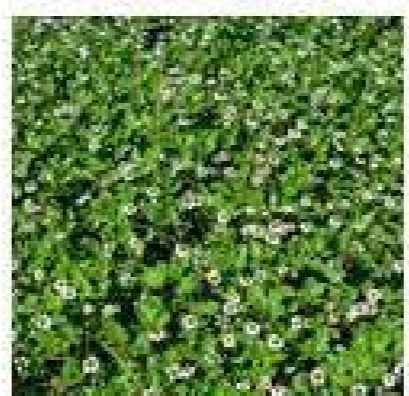
Eugenia foetida
Spanish Stopper



Sorghastrum secundum
Lopsided Indiangrass



Tripsacum floridanum
Floridagamagrass



Phyla nodiflora
Frogfruit



Chrysobalanus icaco
Horizontal cocoplum

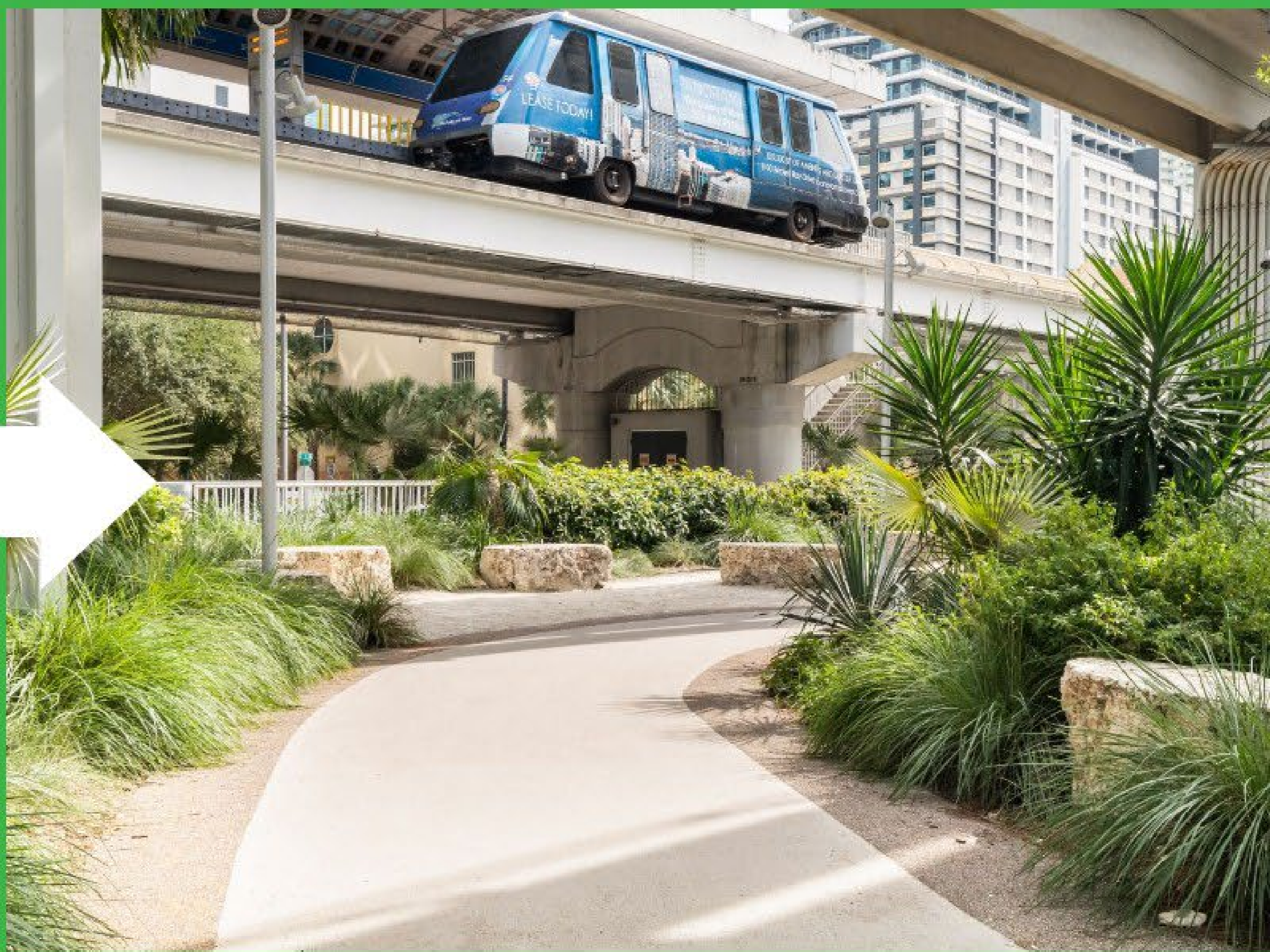


Asclepias tuberosa
Butterflyweed

The Underline
native planting palette



Phase 1 Brickell Backyard- Before



Phase 1 Brickell Backyard- After

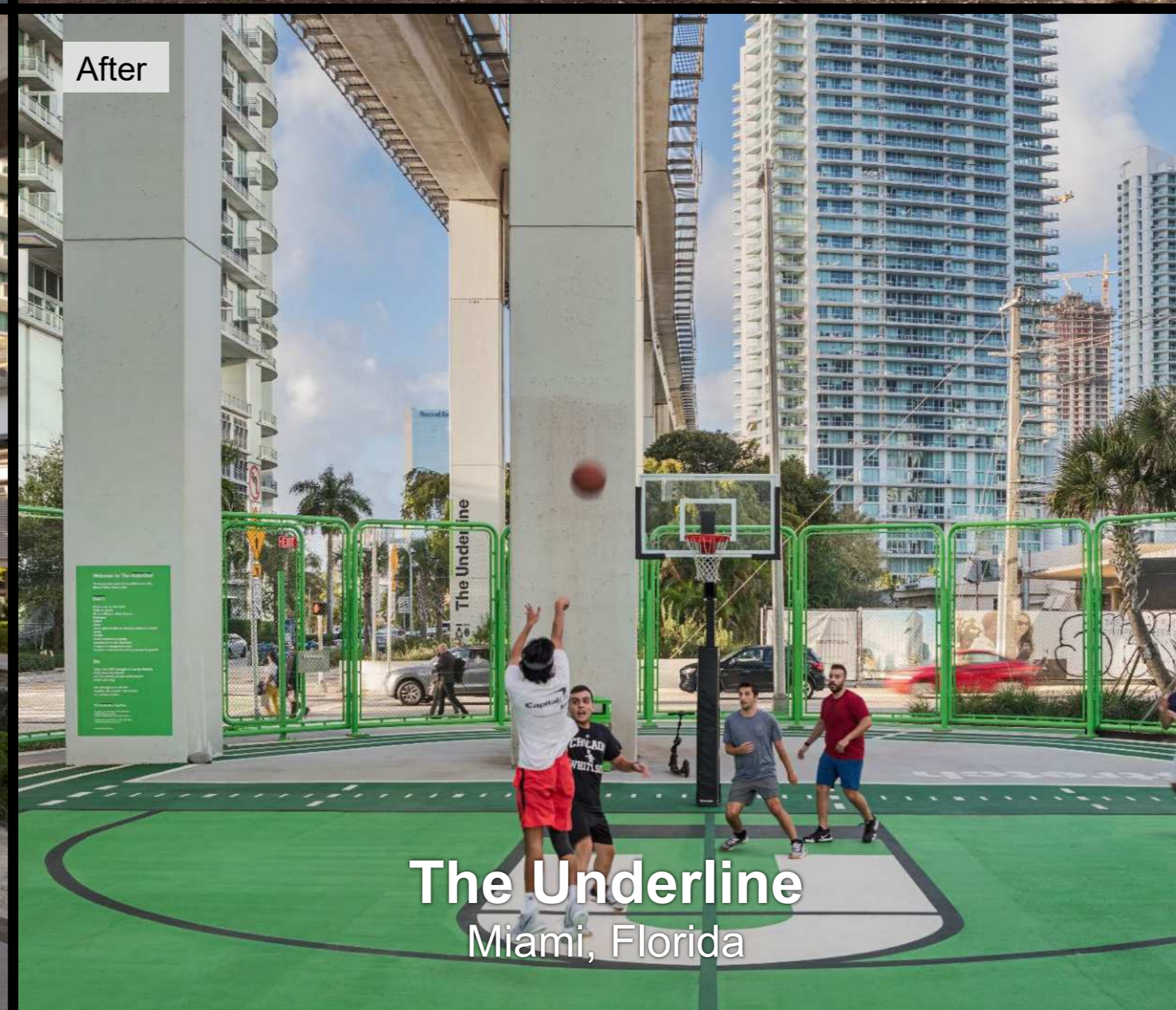
The Underline
Before & After Transformation

THE FIRST PHASE: 0.5 MILES IN BRICKELL

AIR BRICKELL
LEASING
Y APARTMENTS
"OLITAIR" to 77599
LITAIR.COM



The Underline
Miami, Florida



fieldoperations

The Underline
Miami, Florida



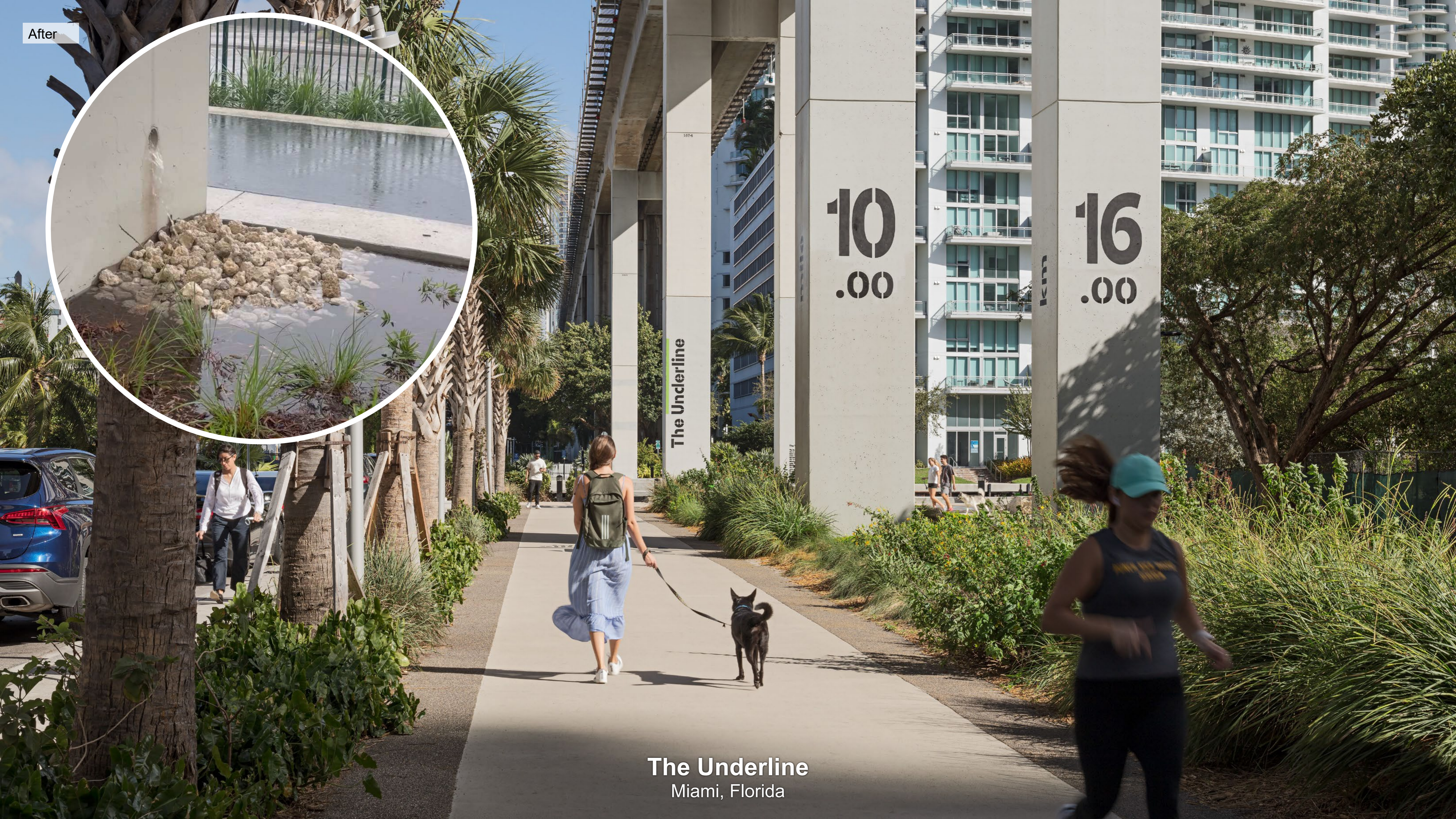
The Underline
Miami, Florida

Before



The Underline
Miami, Florida

After



The Underline
Miami, Florida

**CLOSELY AFTER PLANTING INSTALLATION,
THE PARK SAW THE RESURGENCE OF THE
ATALA BUTTERFLY, AN ENDANGERED
SPECIES TO SOUTH FLORIDA.**





fieldoperations

The Underline
Miami, Florida

THE LAST PHASE: 7.5 MILES LONG

sabal palm

simpson stopper

slash pine

coontie

saw palmetto



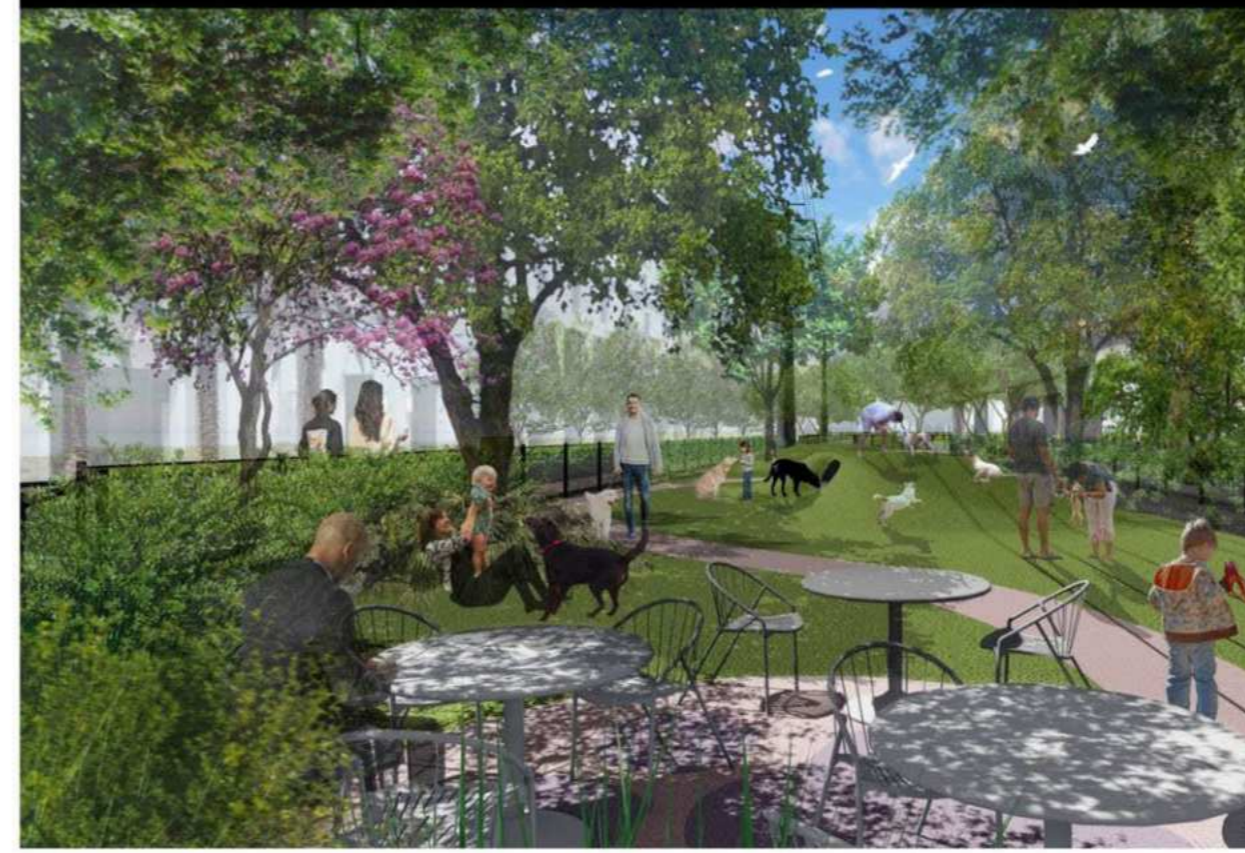
A- GROVE GALLERY



B- THE UNDERLINE PLAZA



C- BARK PARK



D- FITNESS ROOM



E- WATER BALCONY / KAYAK LAUNCH *



F - RAIN GARDENS



G - STORMWATER PONDS



H- PINELAND COURTS *



I- ROCK RIDGE PLAZA



J- THE U SKATE PARK



K- PLAY FOREST

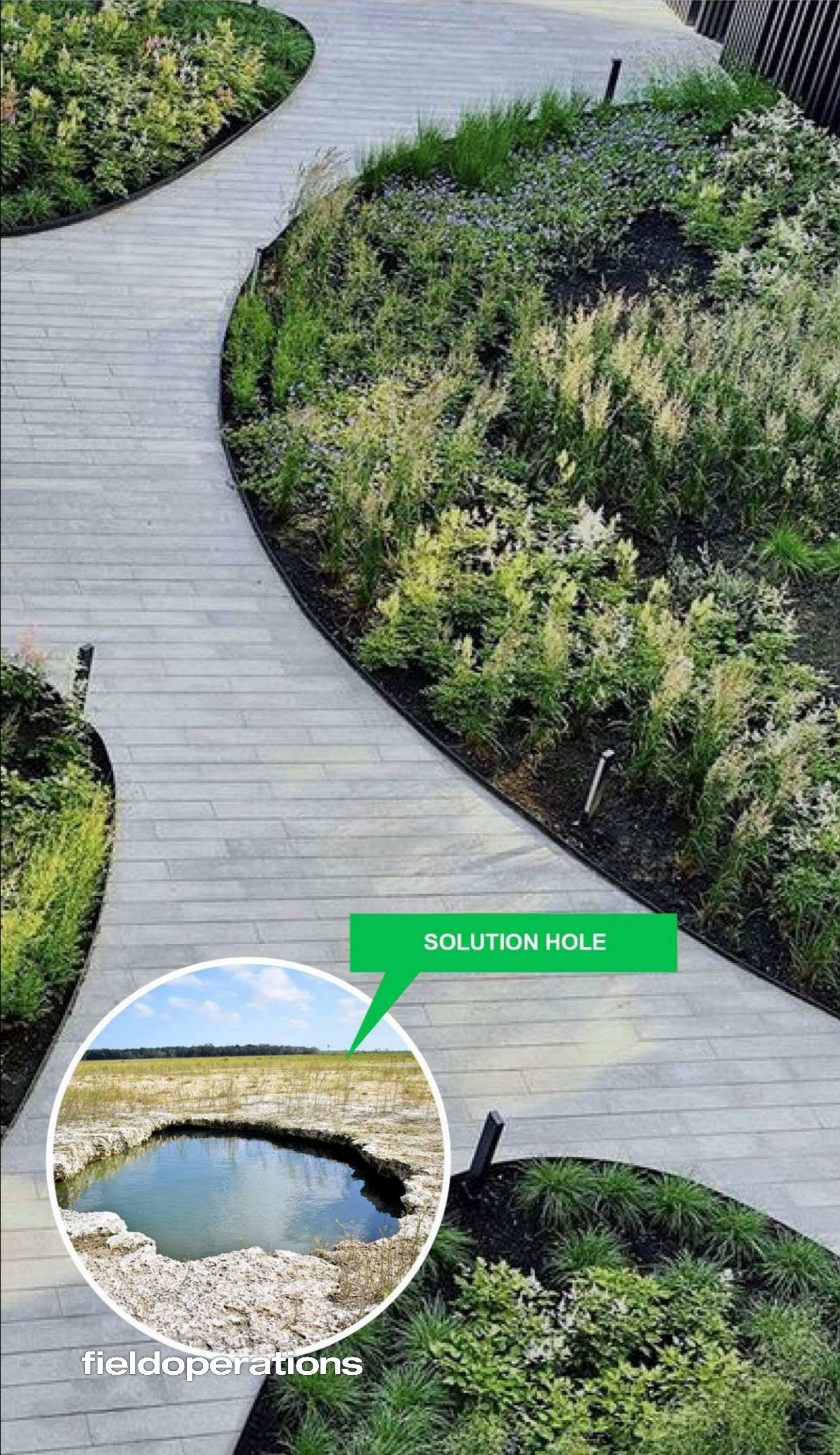


L- BUTTERFLY GARDENS





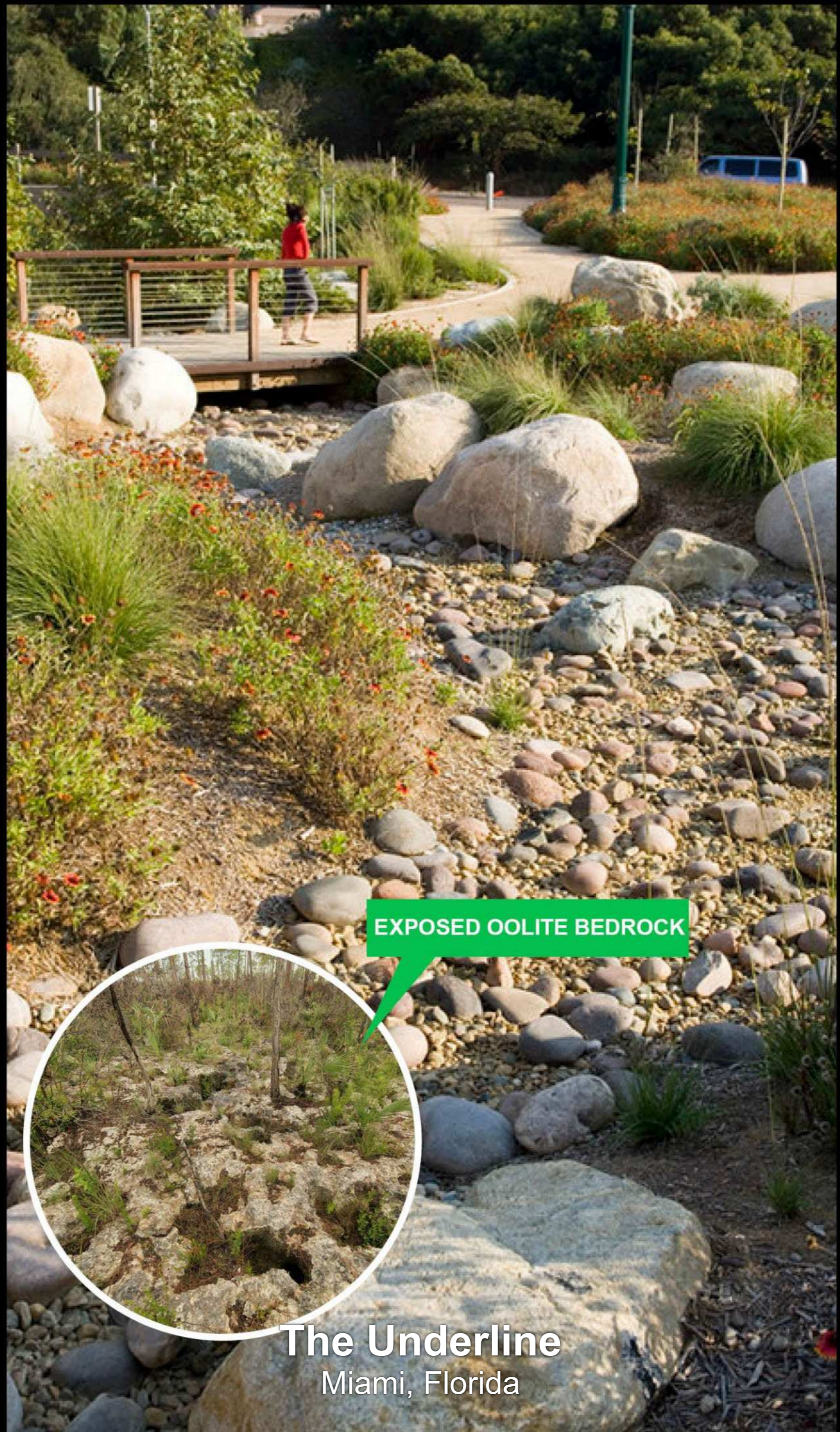
The Underline
Exfiltration Tank Installation



SOLUTION HOLE



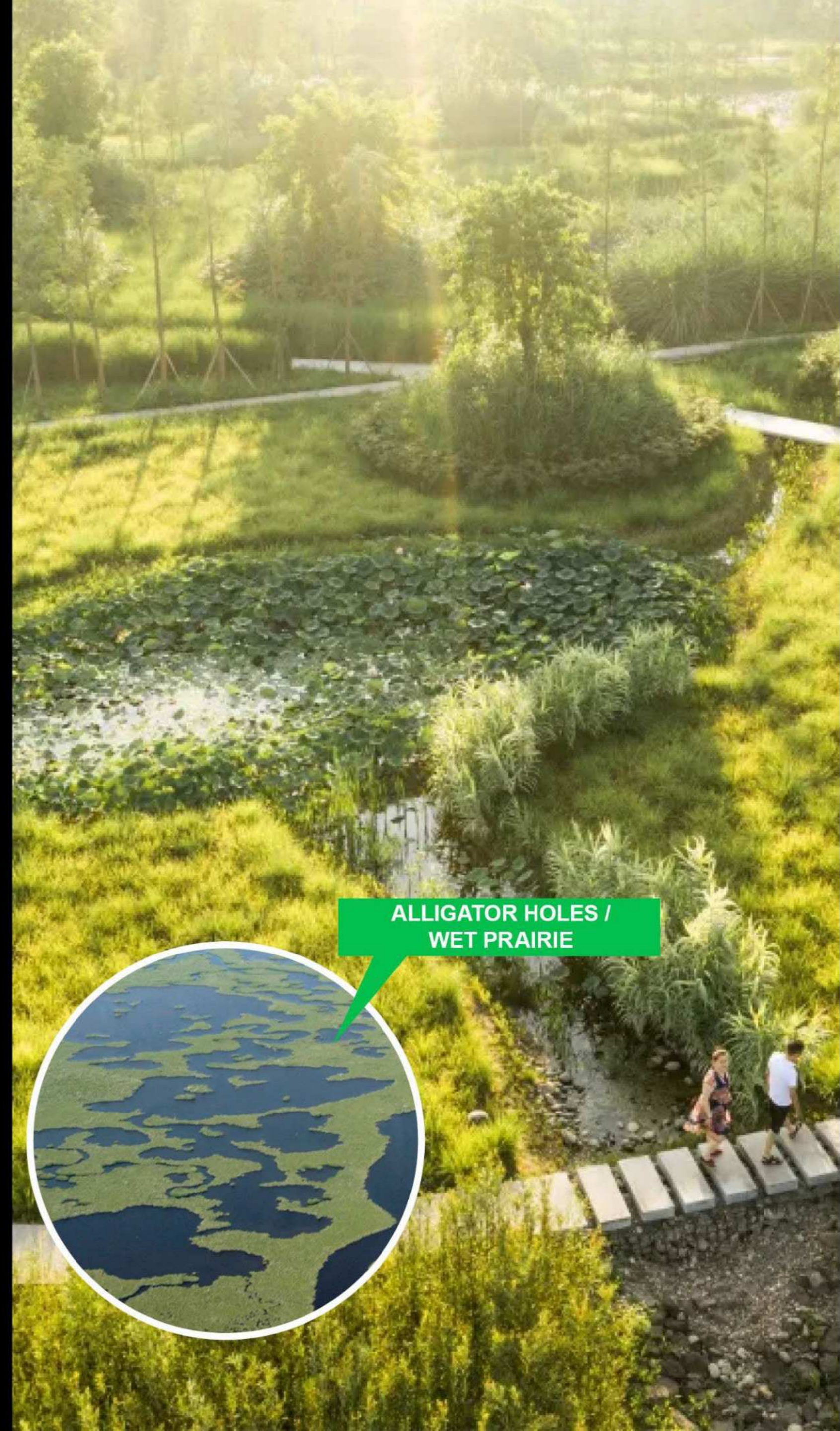
fieldoperations



EXPOSED OOLITE BEDROCK

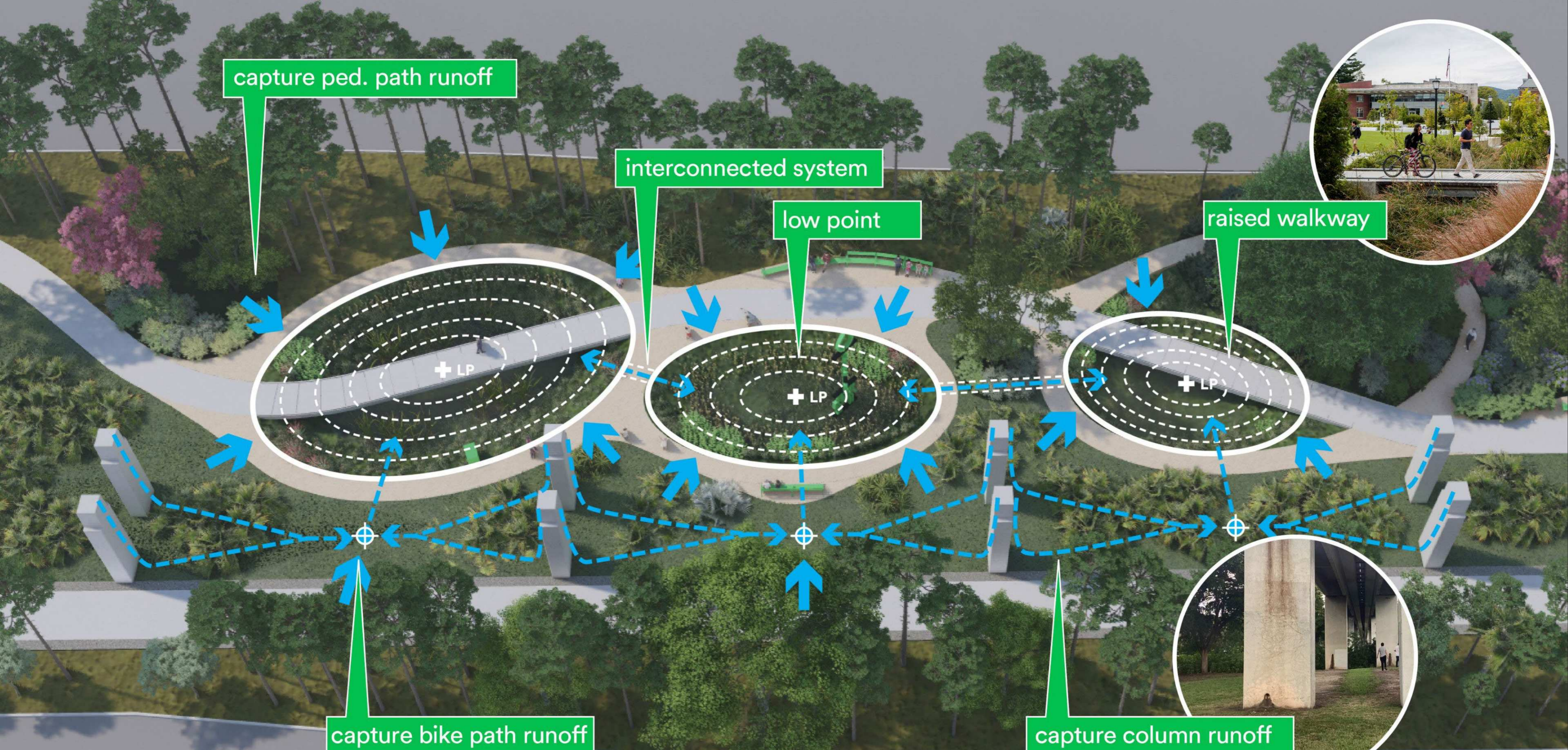


The Underline
Miami, Florida



ALLIGATOR HOLES / WET PRAIRIE





fieldoperations

The Underline
bioretention ponds



fieldoperations

The Underline
existing

pine rockland planting

micro-forest

public art

bike path

bioretention ponds

The Underline

field operations

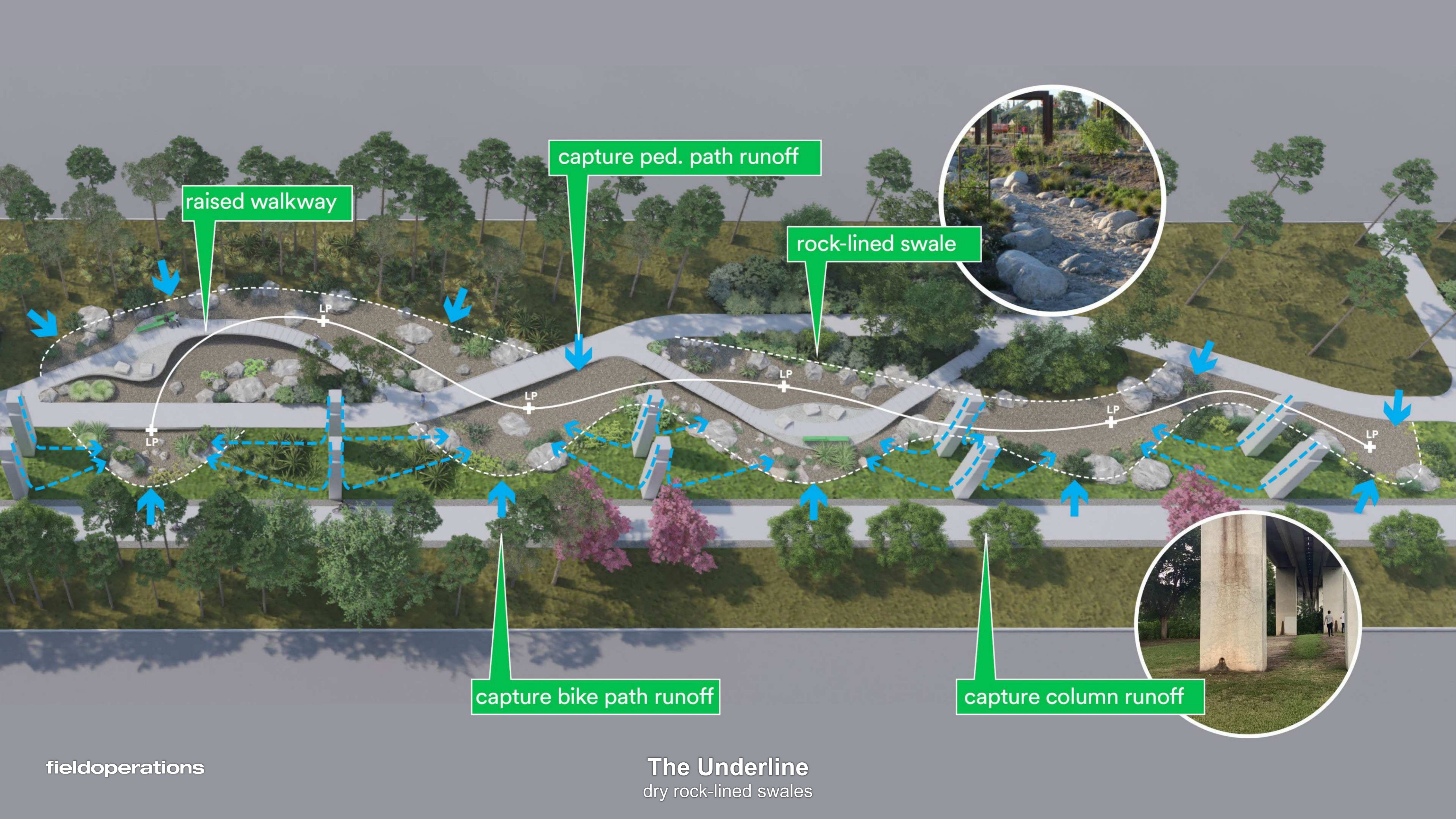
The Underline
bioretention ponds





fieldoperations

The Underline
under construction



raised walkway

capture ped. path runoff

rock-lined swale

capture bike path runoff

capture column runoff

fieldoperations

The Underline
dry rock-lined swales



fieldoperations

The Underline
existing



bicycle path

The Underline

Rain Garden

swales

micro-forest

bird houses

insect hotels

field operations

The Underline
dry rock-lined swales



fieldoperations

The Underline
under construction

ONCE COMPLETE, THE UNDERLINE PHASE 3 WILL INCLUDE 1,800 NEW TREES AND OVER 350,000 NEW PLANTS



fieldoperations

The Underline
Miami, Florida



BENTWAY ISLANDS

TORONTO, CANADA



**THE GARDINER EXPRESSWAY RUNS 18 KM
THROUGH THE HEART OF TORONTO,
PHYSICALLY SEPARATING THE CITY'S
DOWNTOWN FROM ITS LAKEFRONT**

Before

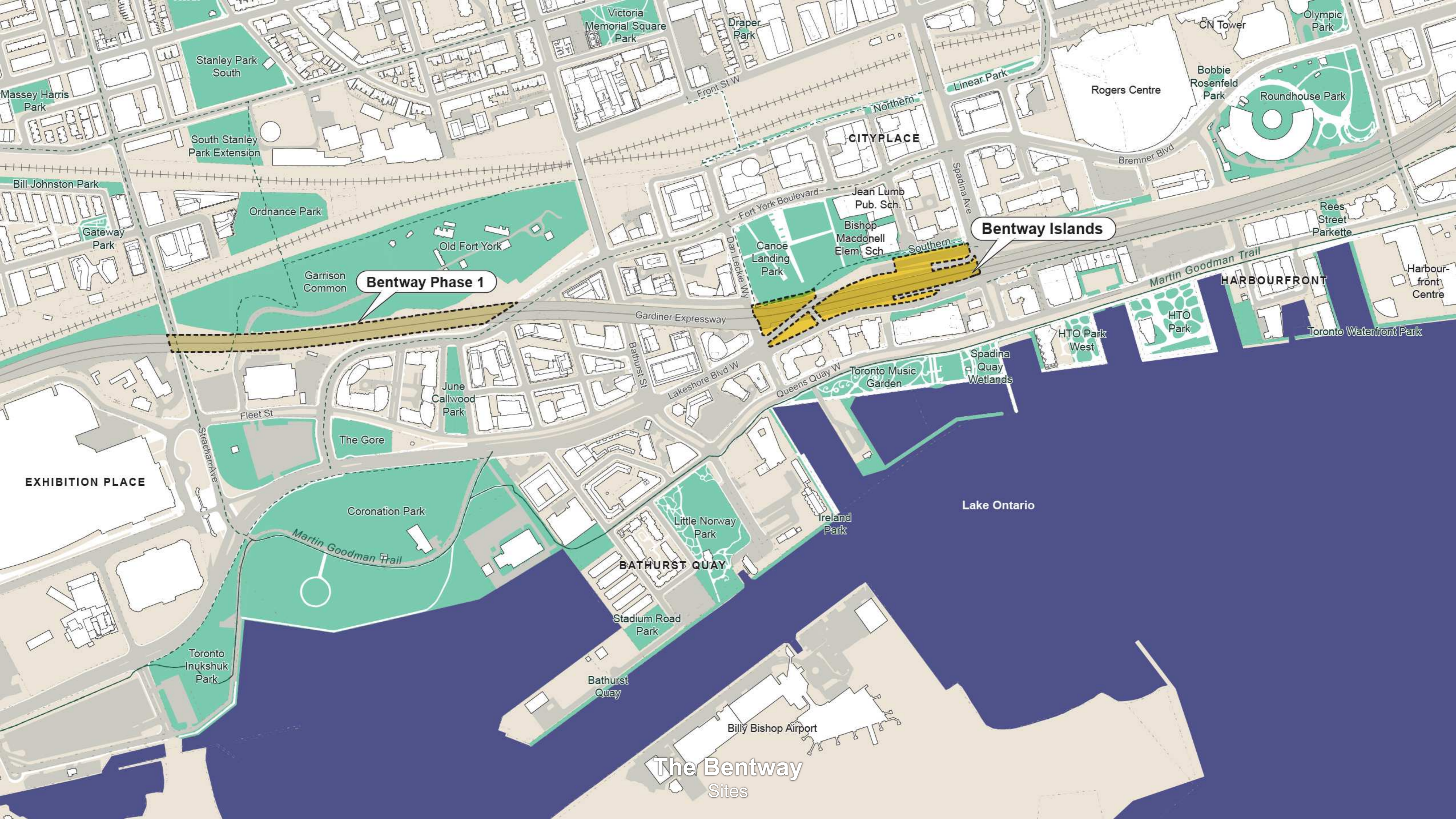


After



fieldoperations

The Bentway 1.0
Toronto's shared space



Bentway Phase 1

Bentway Islands

The Bentway Sites

EXHIBITION PLACE

CITYPLACE

HARBOURFRONT

BATHURST QUAY

Lake Ontario

Stanley Park South

South Stanley Park Extension

Bill Johnston Park

Ordnance Park

Old Fort York

Garrison Common

Victoria Memorial Square Park

Draper Park

Linear Park

CN Tower

Olympic Park

Rogers Centre

Bobbie Rosenfeld Park

Roundhouse Park

Front St W

CITYPLACE

Fort York Boulevard

Jean Lumb Pub. Sch.

Bishop Macdonell Elem. Sch.

Spadina Ave

Bremner Blvd

Bobbie Rosenfeld Park

Roundhouse Park

Rees Street Parkette

Gateway Park

Ordnance Park

Old Fort York

Garrison Common

Canoe Landing Park

Bishop Macdonell Elem. Sch.

Southern

Bentway Islands

Martin Goodman Trail

HARBOURFRONT

Harbourfront Centre

Gardiner Expressway

HTO Park West

HTO Park

Toronto Waterfront Park

Fleet St

The Gore

June Callwood Park

Bathurst St

Lakeshore Blvd W

Queens Quay W

Toronto Music Garden

Spadina Quay Wetlands

EXHIBITION PLACE

Staten Avenue

Coronation Park

Martin Goodman Trail

Little Norway Park

Ireland Park

Lake Ontario

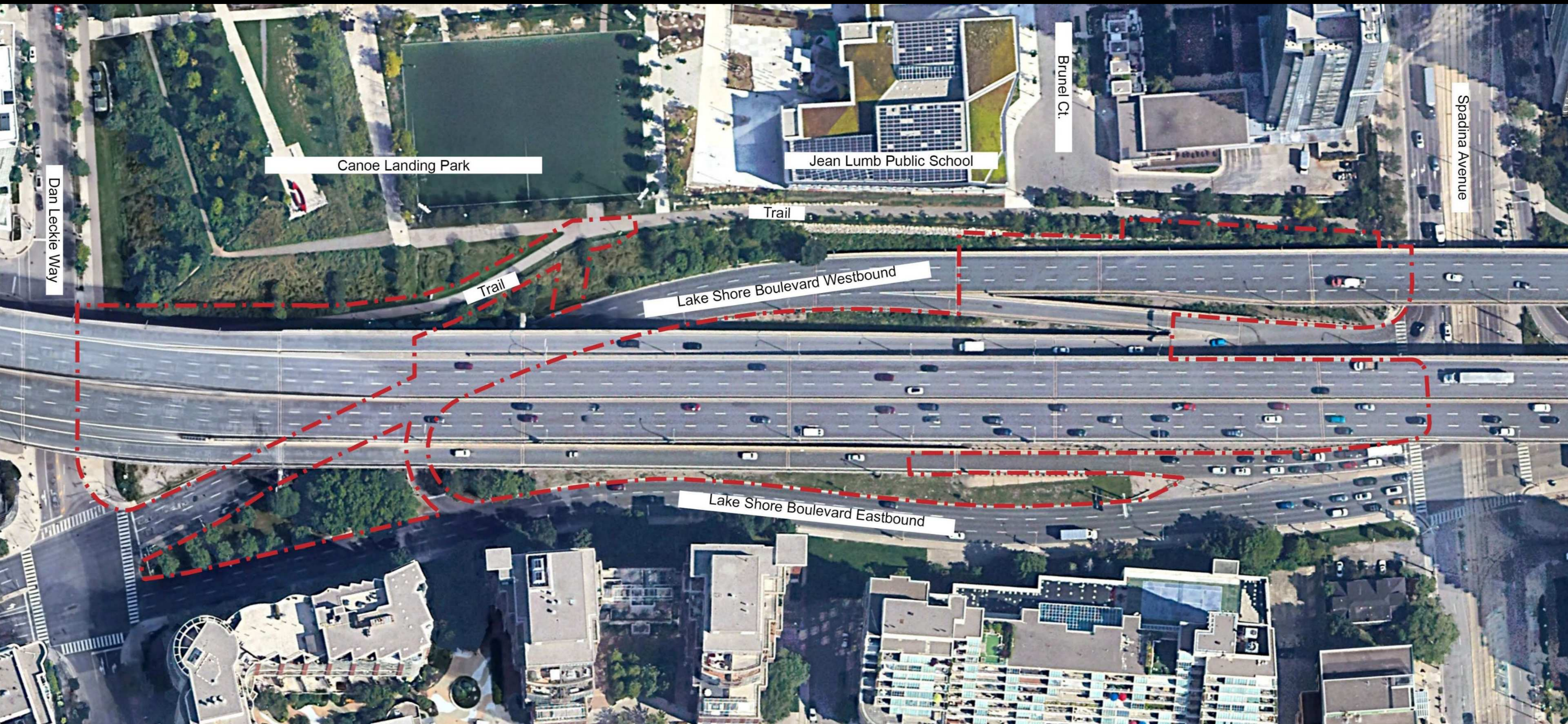
Stadium Road Park

Bathurst Quay

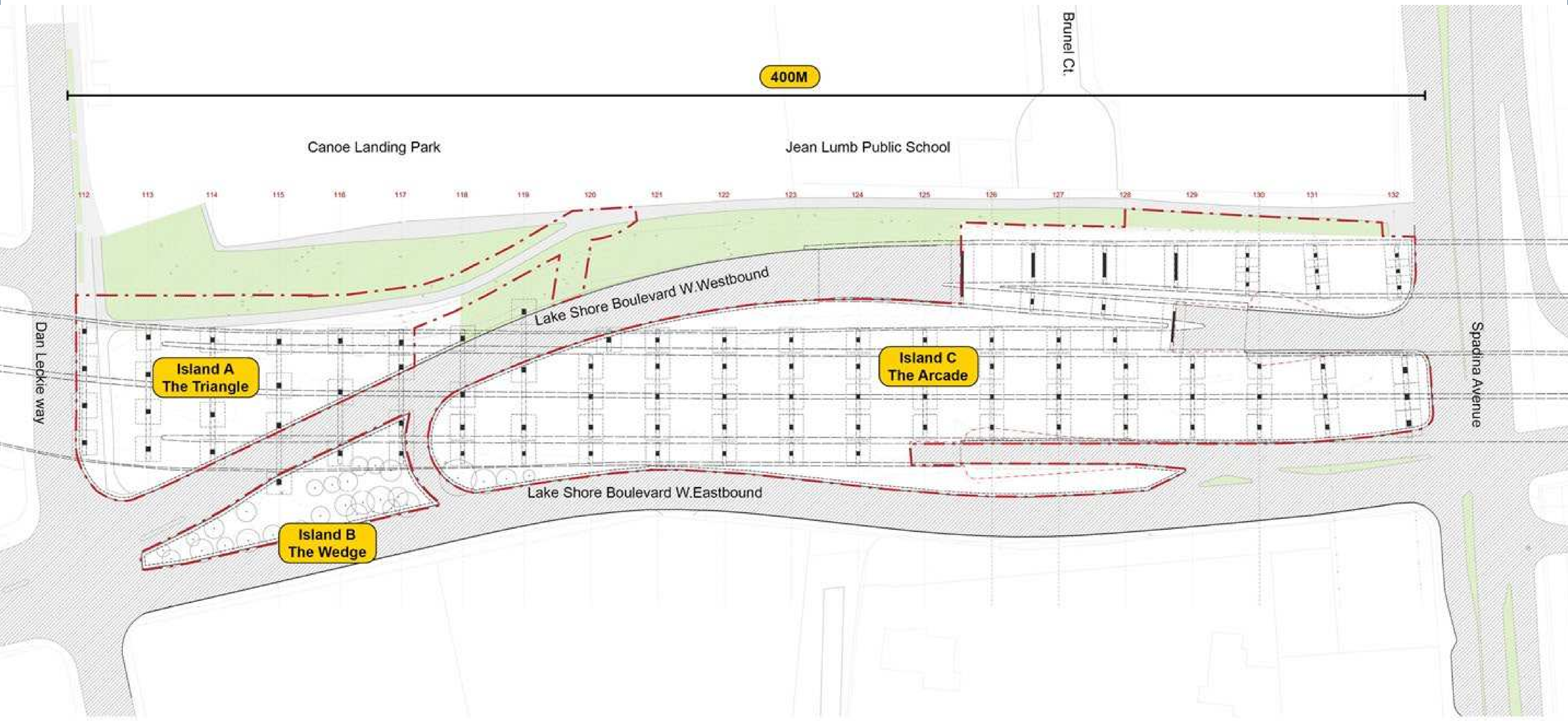
Billy Bishop Airport

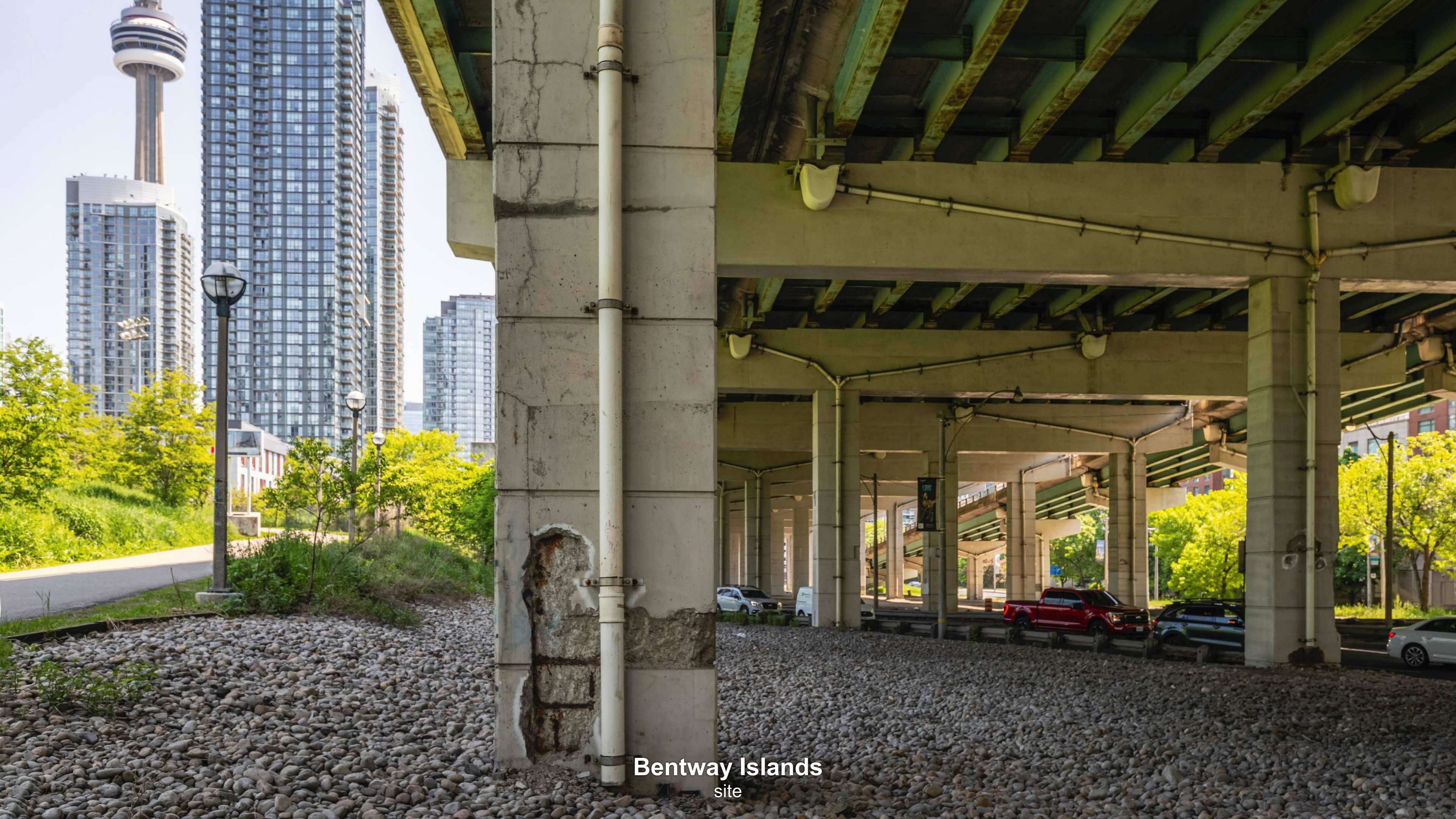
Toronto Inukshuk Park

The Bentway Sites



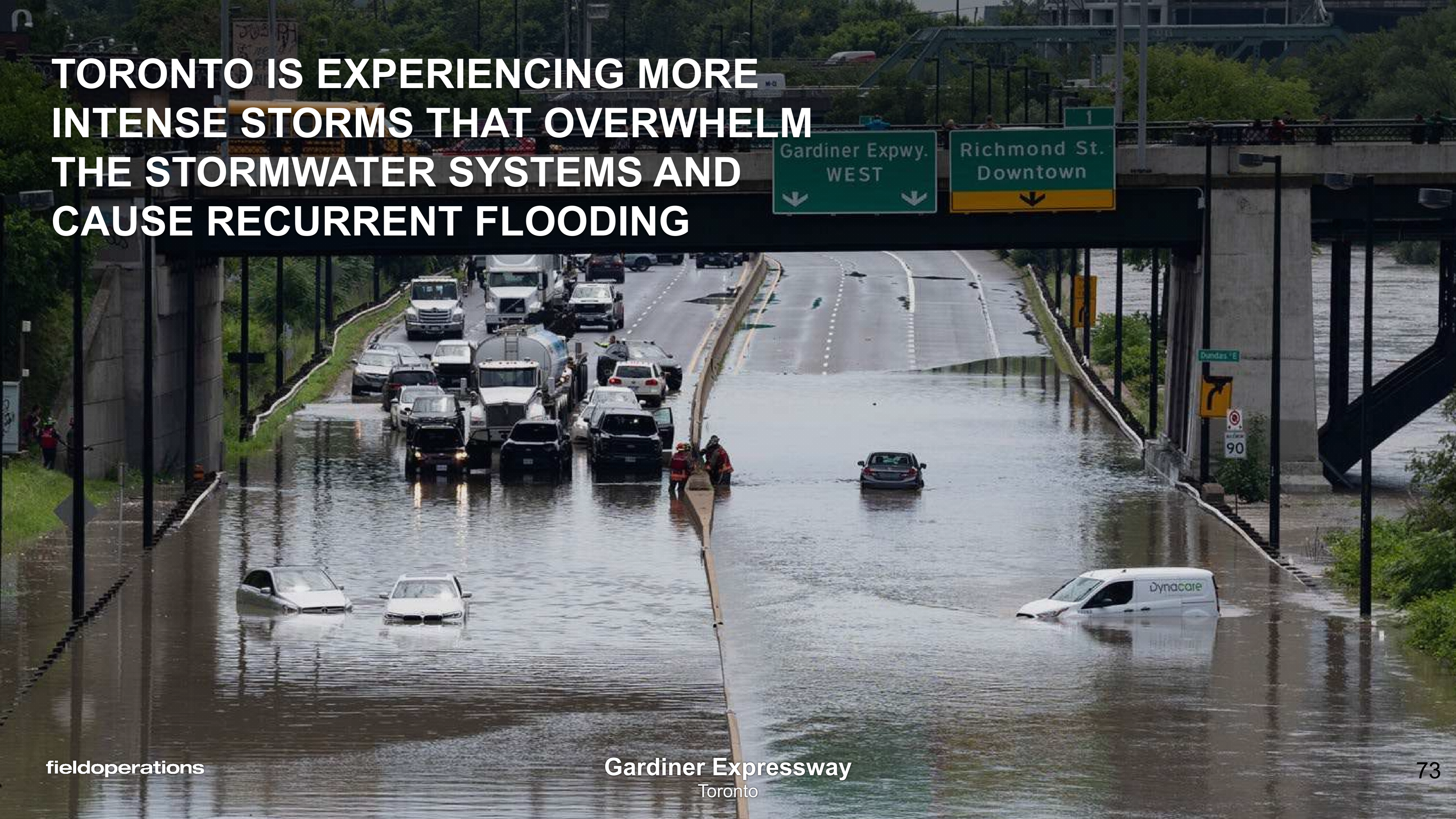
Bentway Islands
site





Bentway Islands
site

TORONTO IS EXPERIENCING MORE INTENSE STORMS THAT OVERWHELM THE STORMWATER SYSTEMS AND CAUSE RECURRENT FLOODING



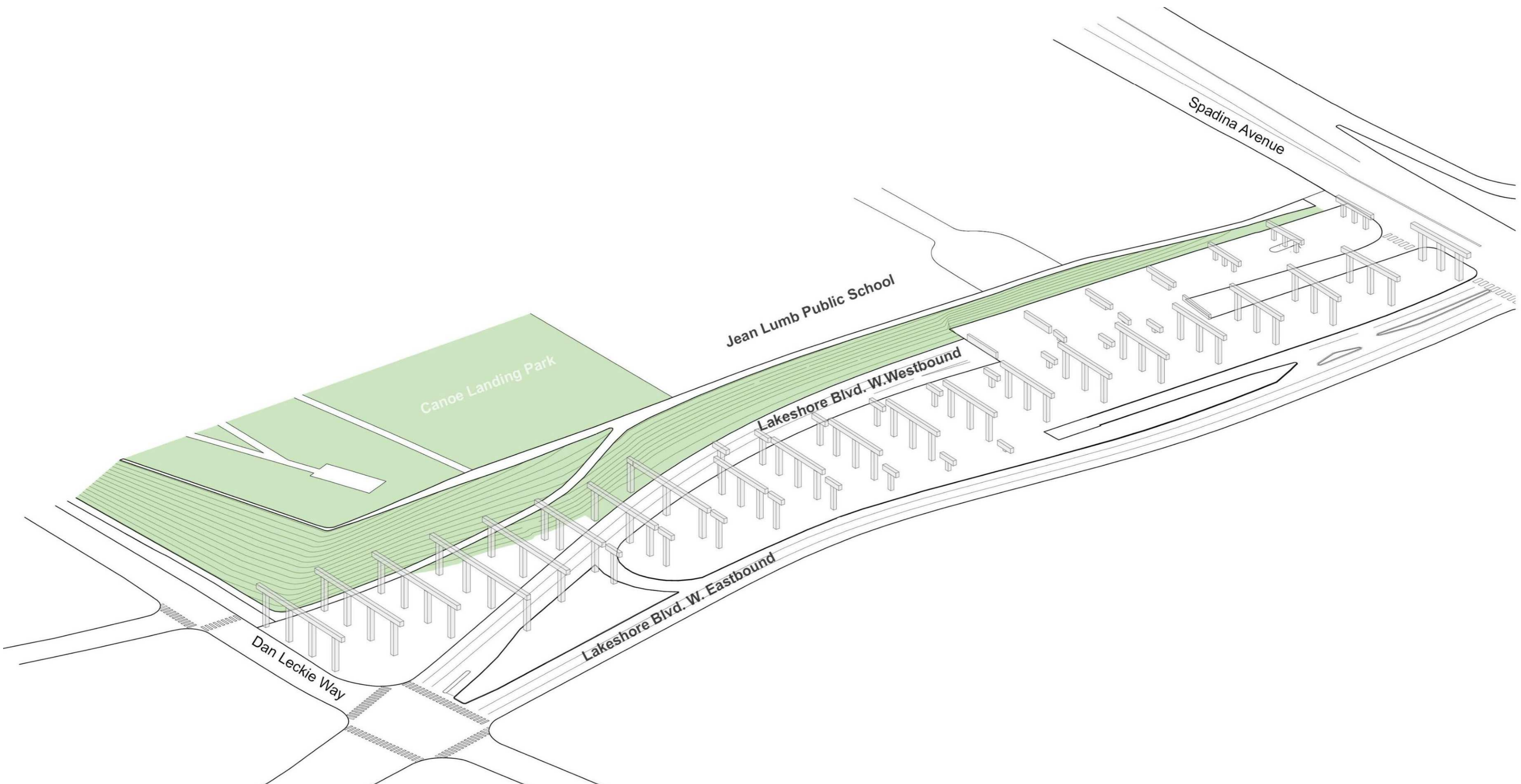


fieldoperations

Bentway Islands

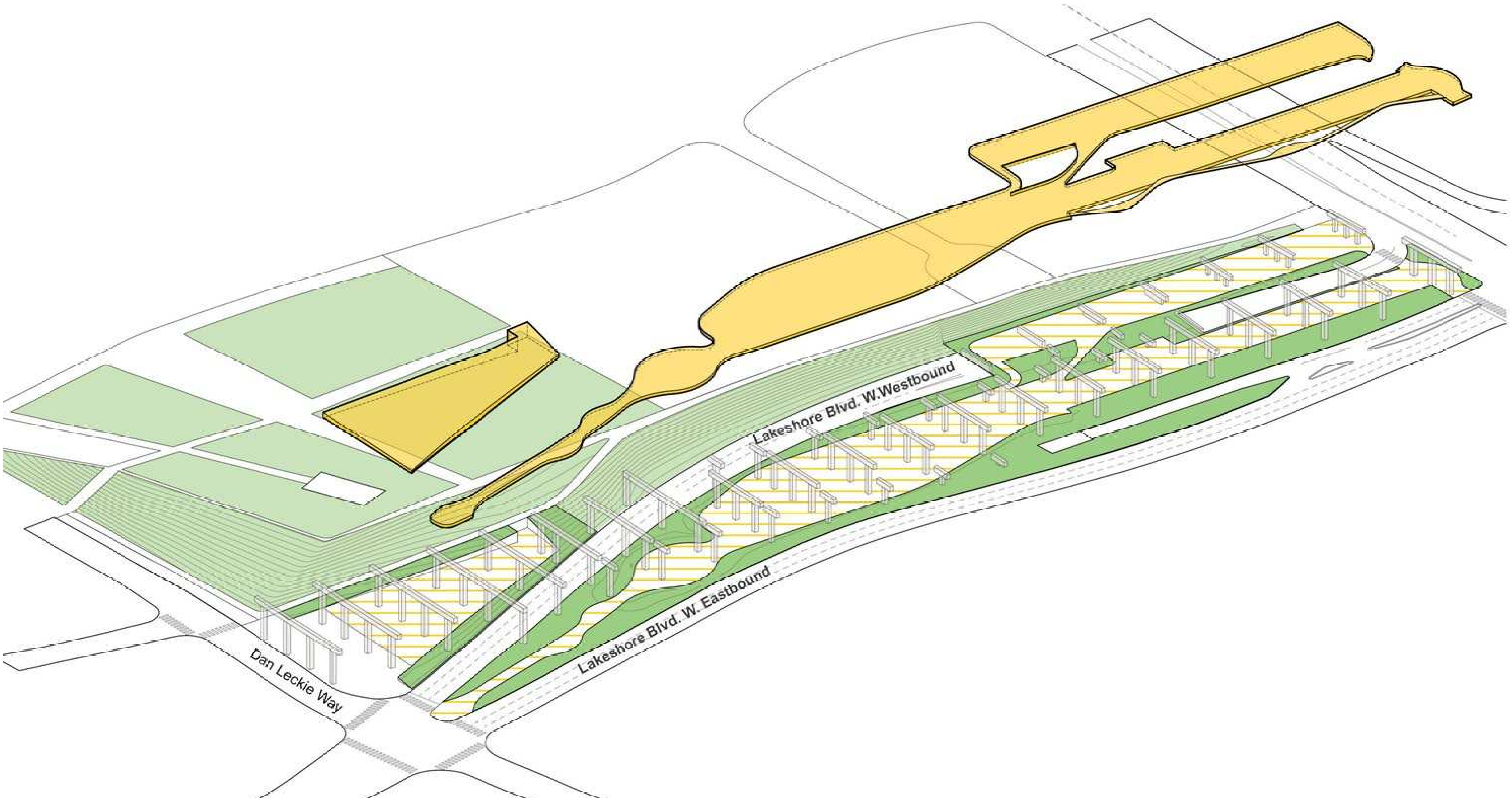
Staging Grounds temporary installation by Agency-Agency and SHEEEP





fieldoperations

Bentway Islands
existing



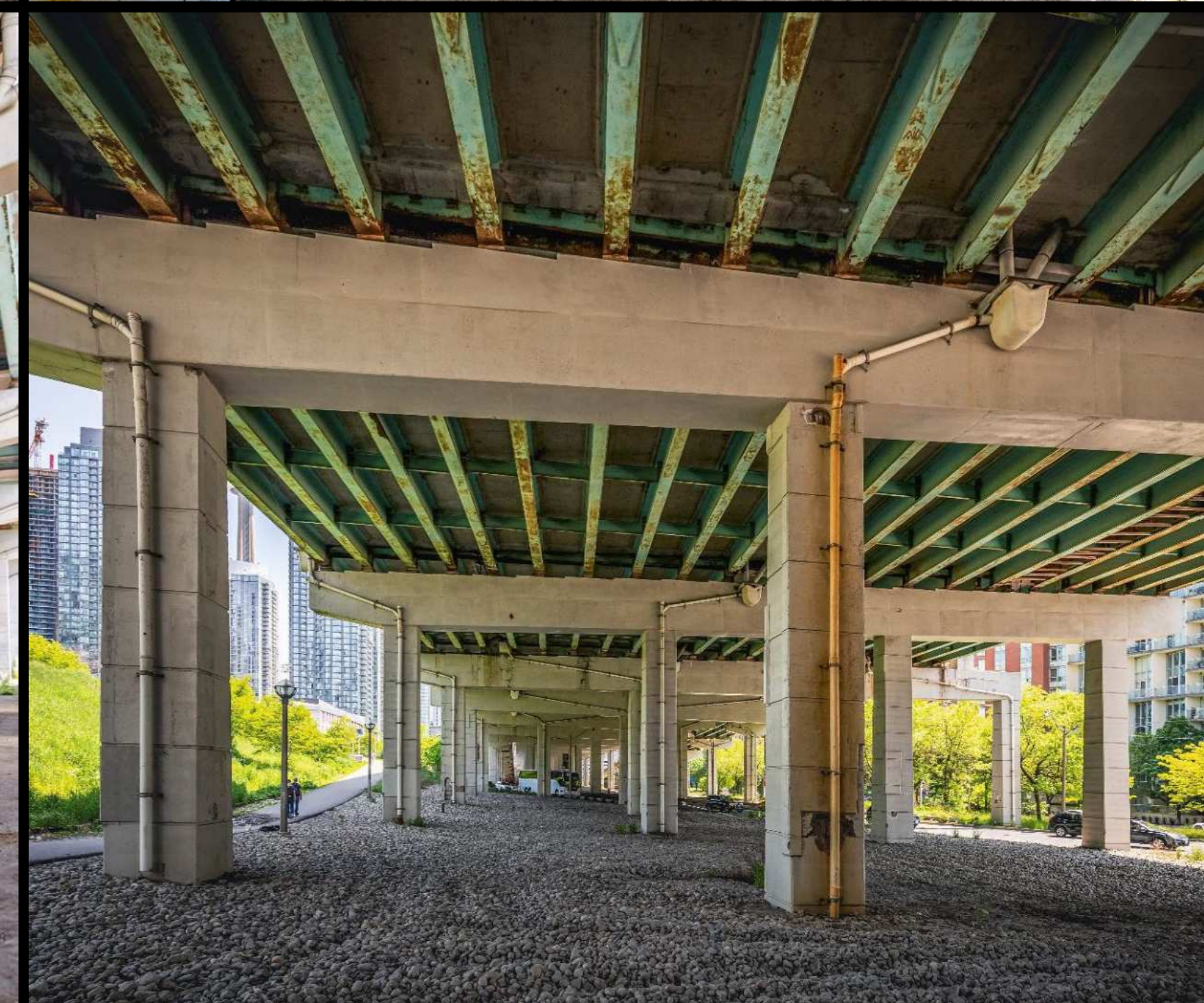
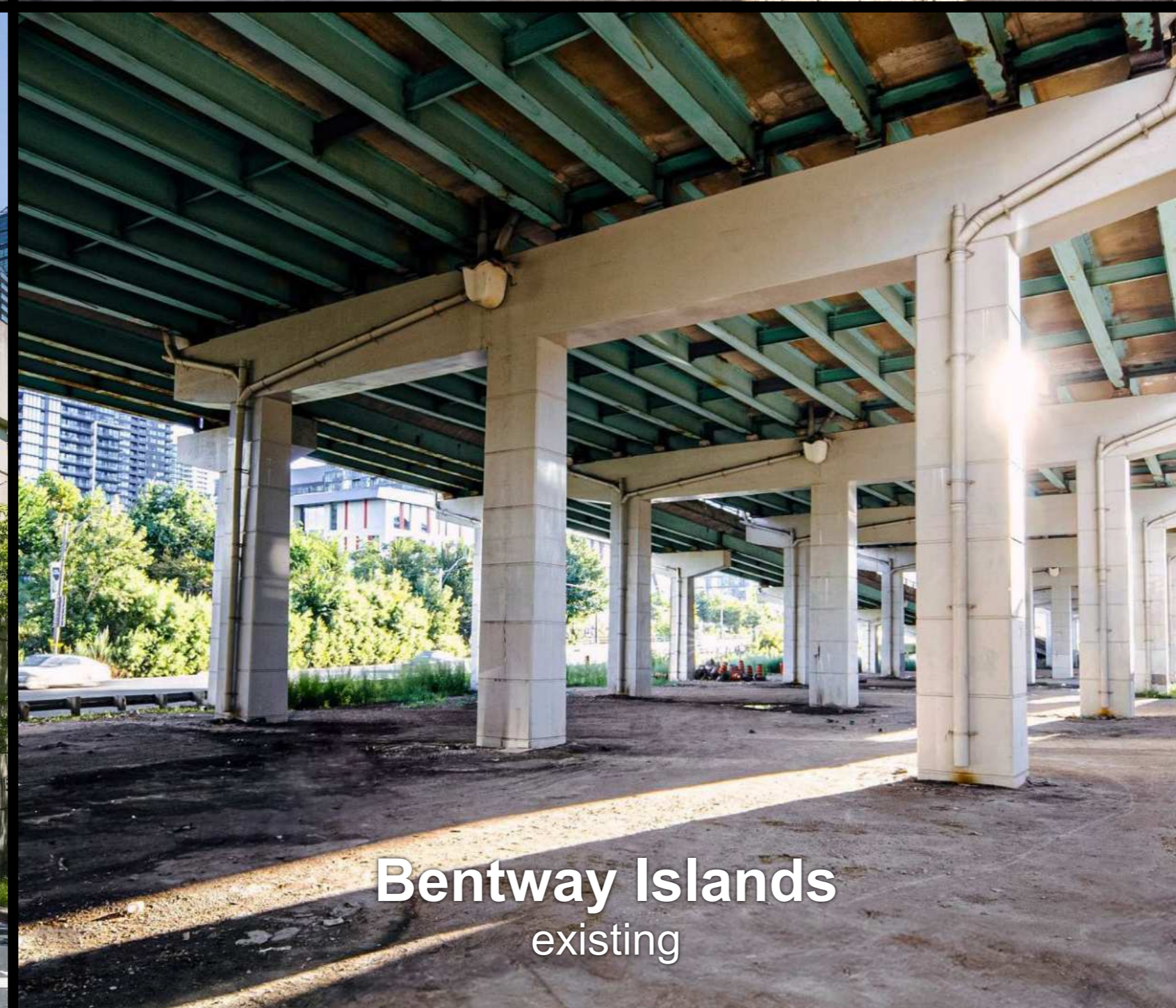
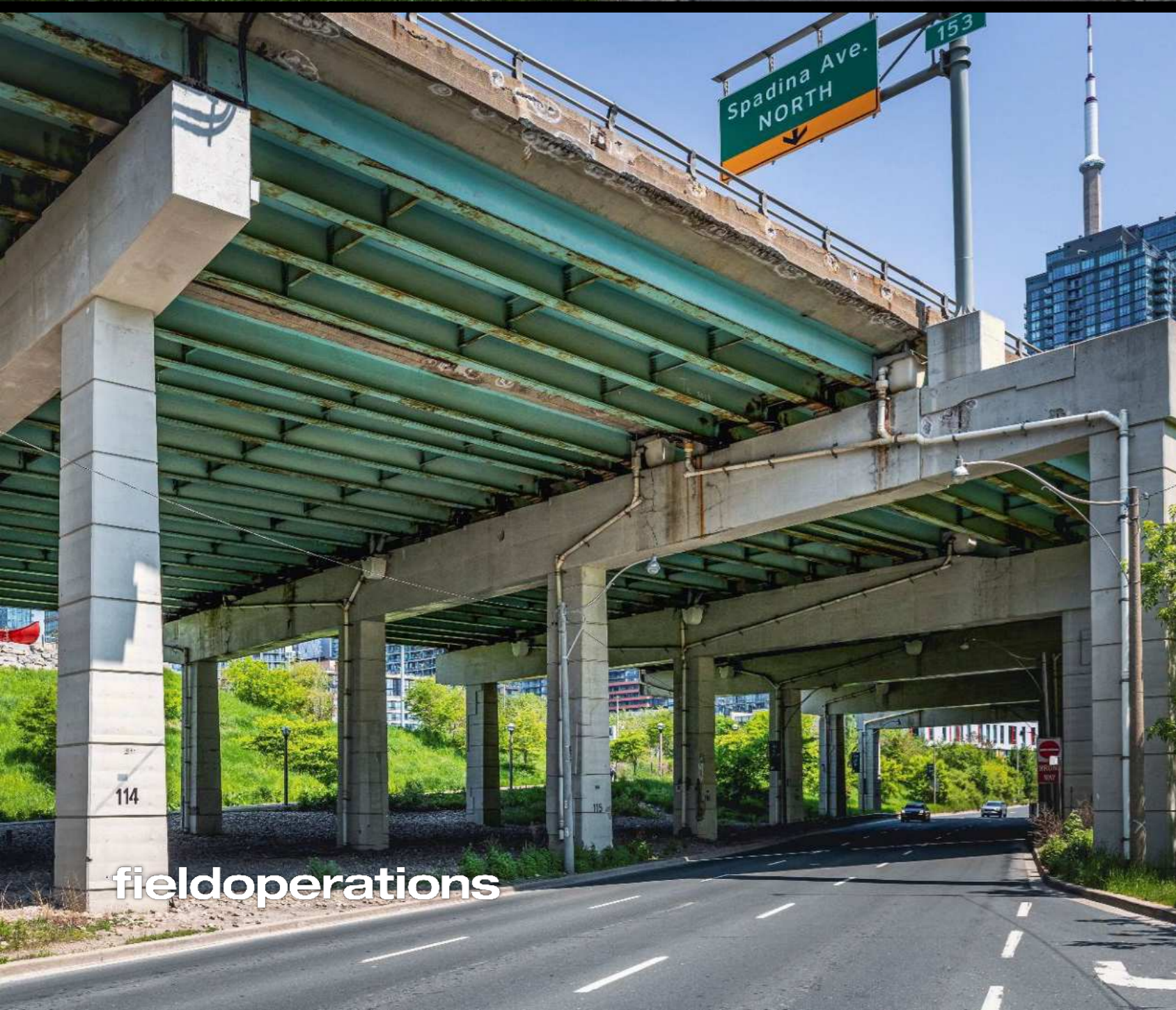
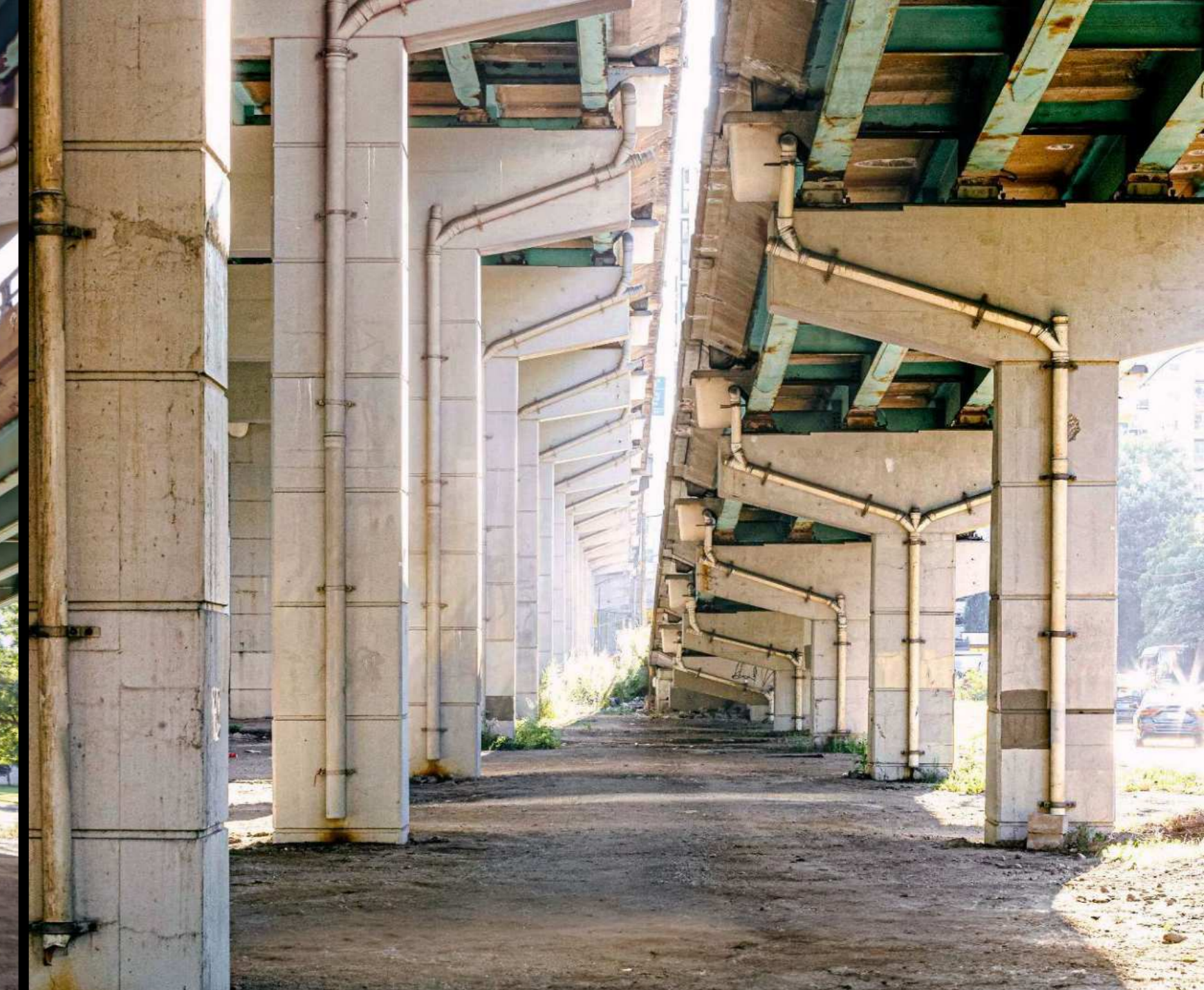
fieldoperations

Bentway Island
buffers



fieldoperations

Bentway Islands
park layout



fieldoperations

Bentway Islands
existing



fieldoperations

Bentway Islands
proposed

COLLECT & ABSORB



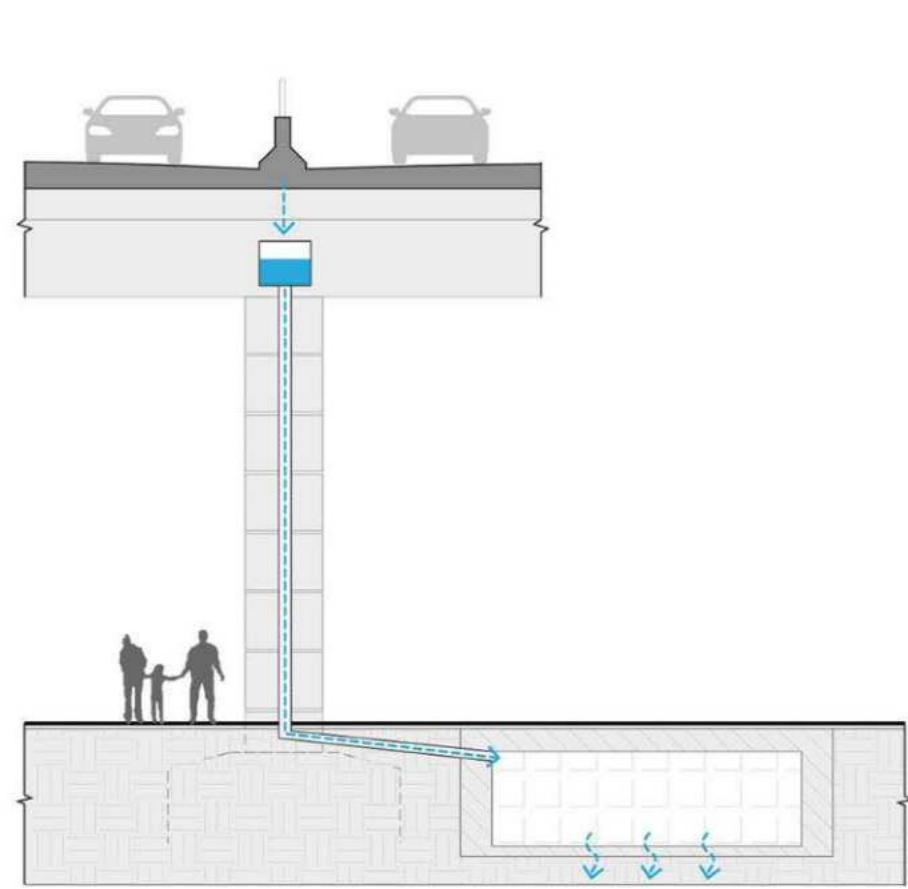
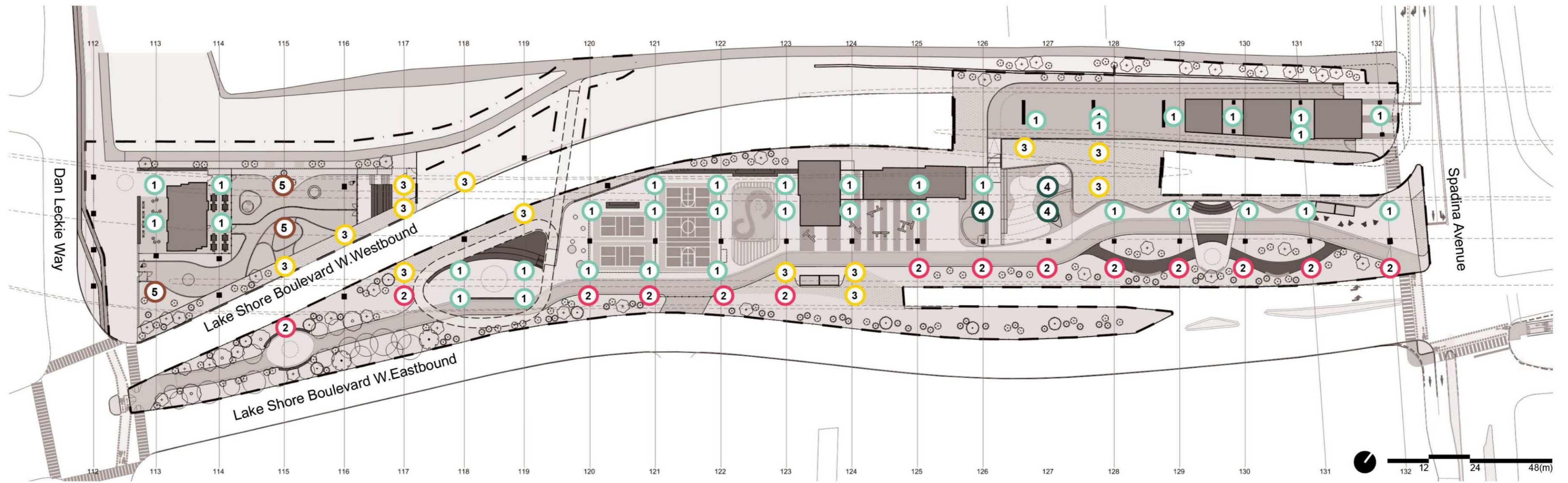
TREAT / STORE



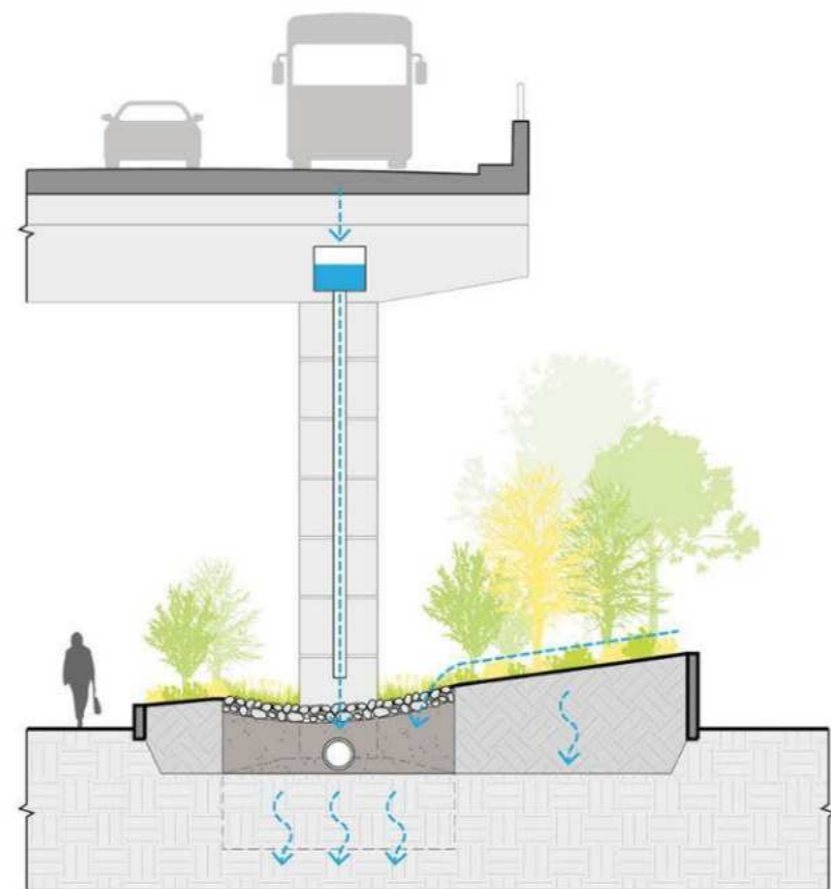
TRANSFER



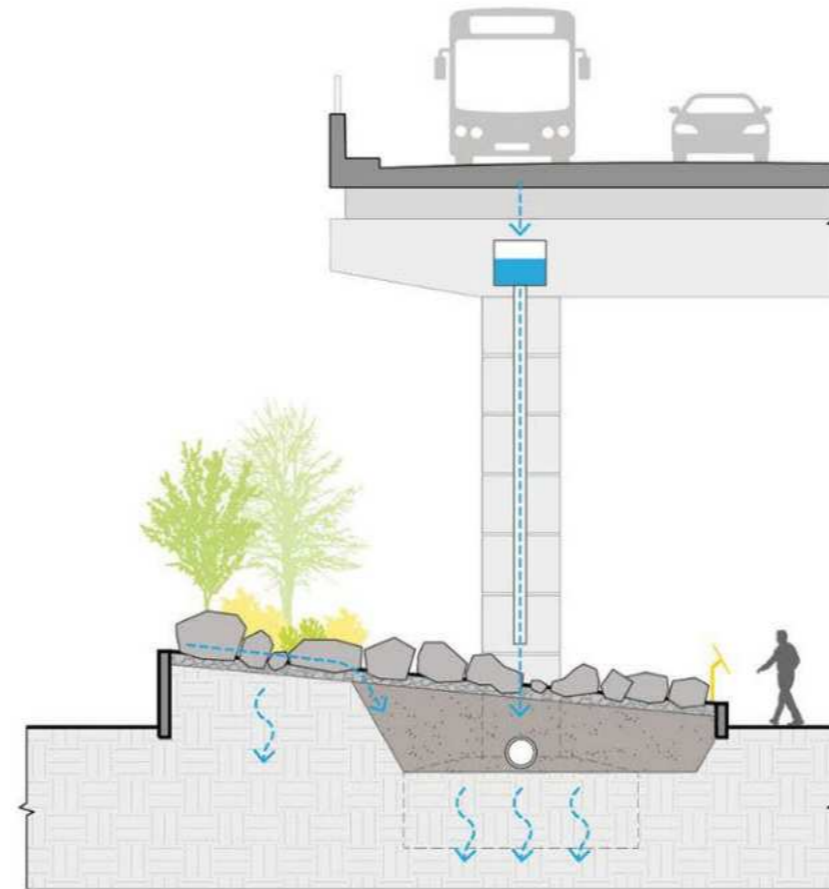
Bentway Islands
stormwater management approach



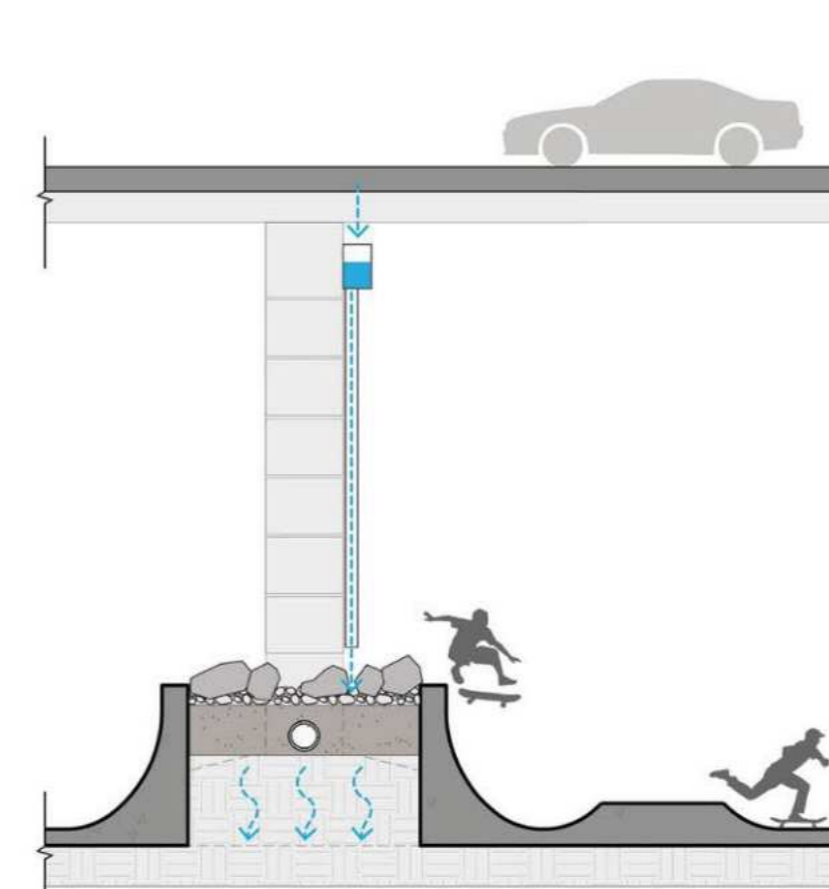
① Impermeable Hardscape
Underground Exfiltration Tank



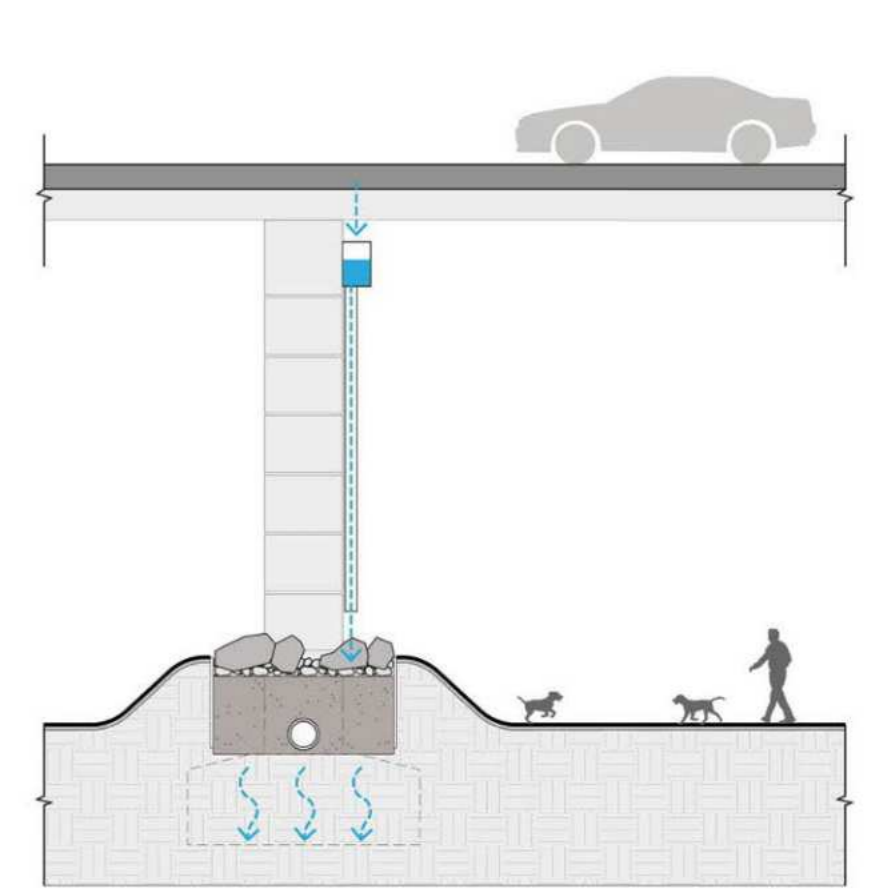
② Rock-lined Bioswale in Planter



③ Rockscape with Bioswale Soil



④ Skatepark Feature



⑤ DOLA Boulder Play Mound

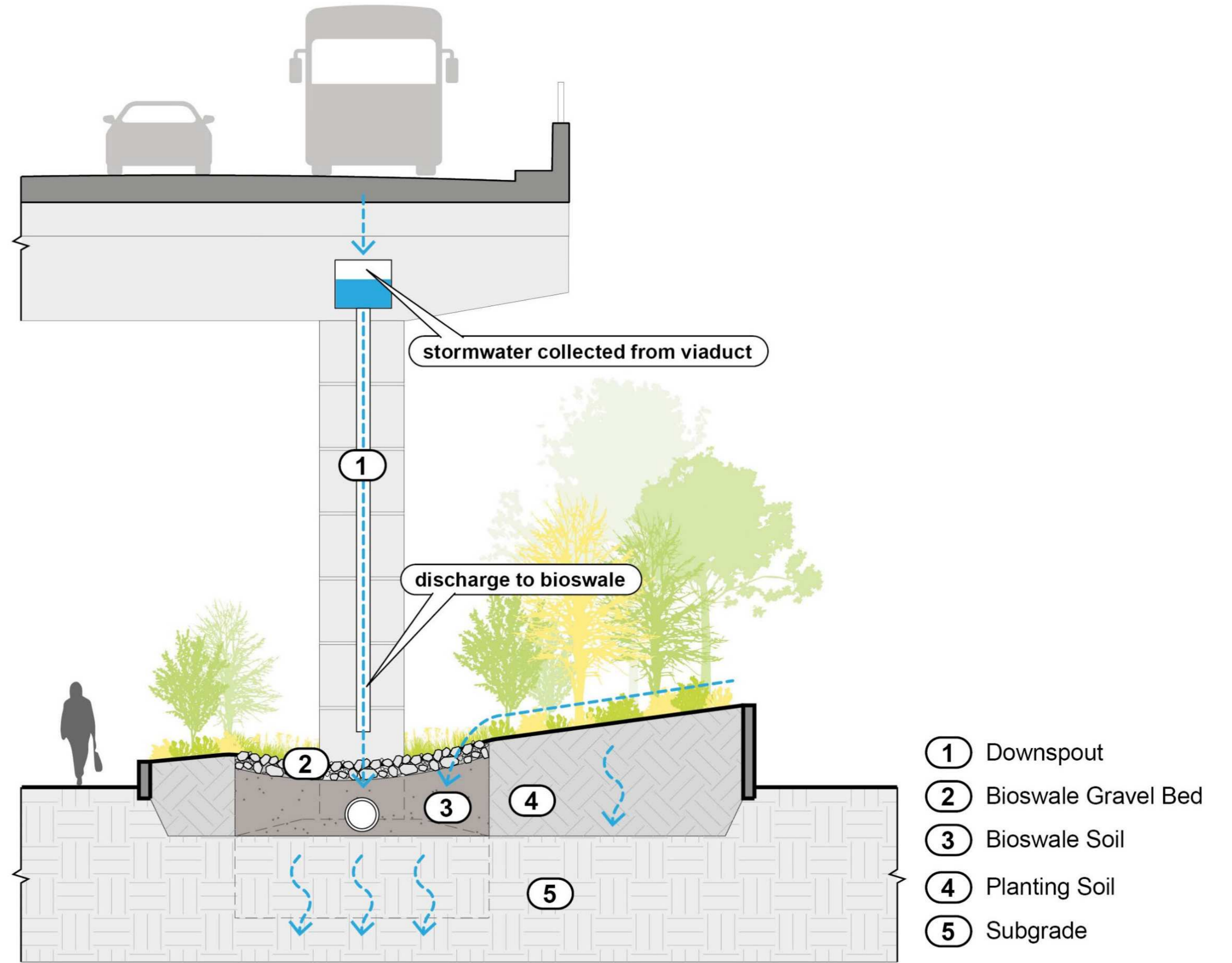
Bentway Islands

stormwater management approach



Bentway Islands
existing





Bentway Islands

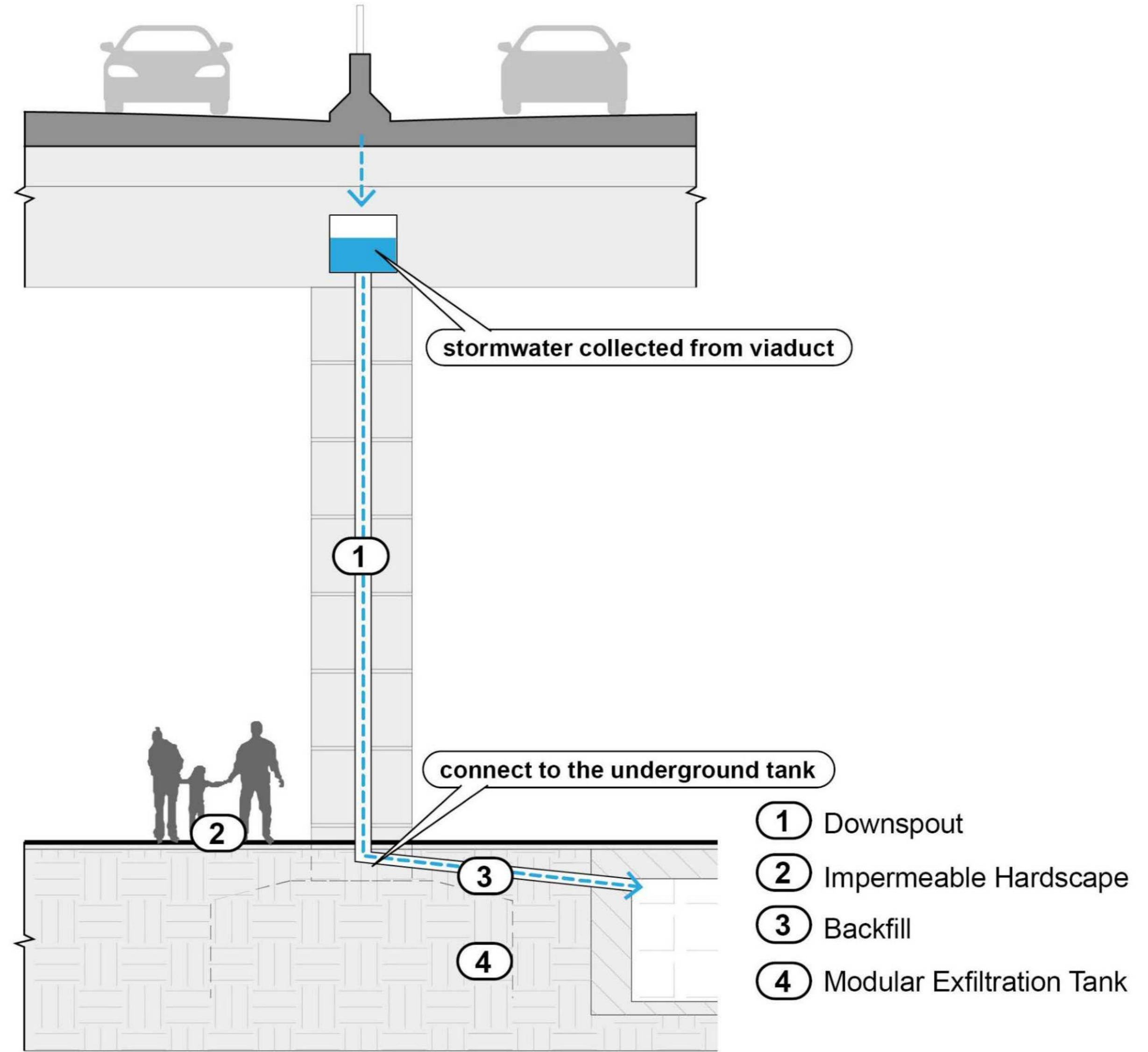
downspout typology – rock-lined bioswale



Bentway Islands
existing



Bentway Islands
arcade courts



Bentway Islands

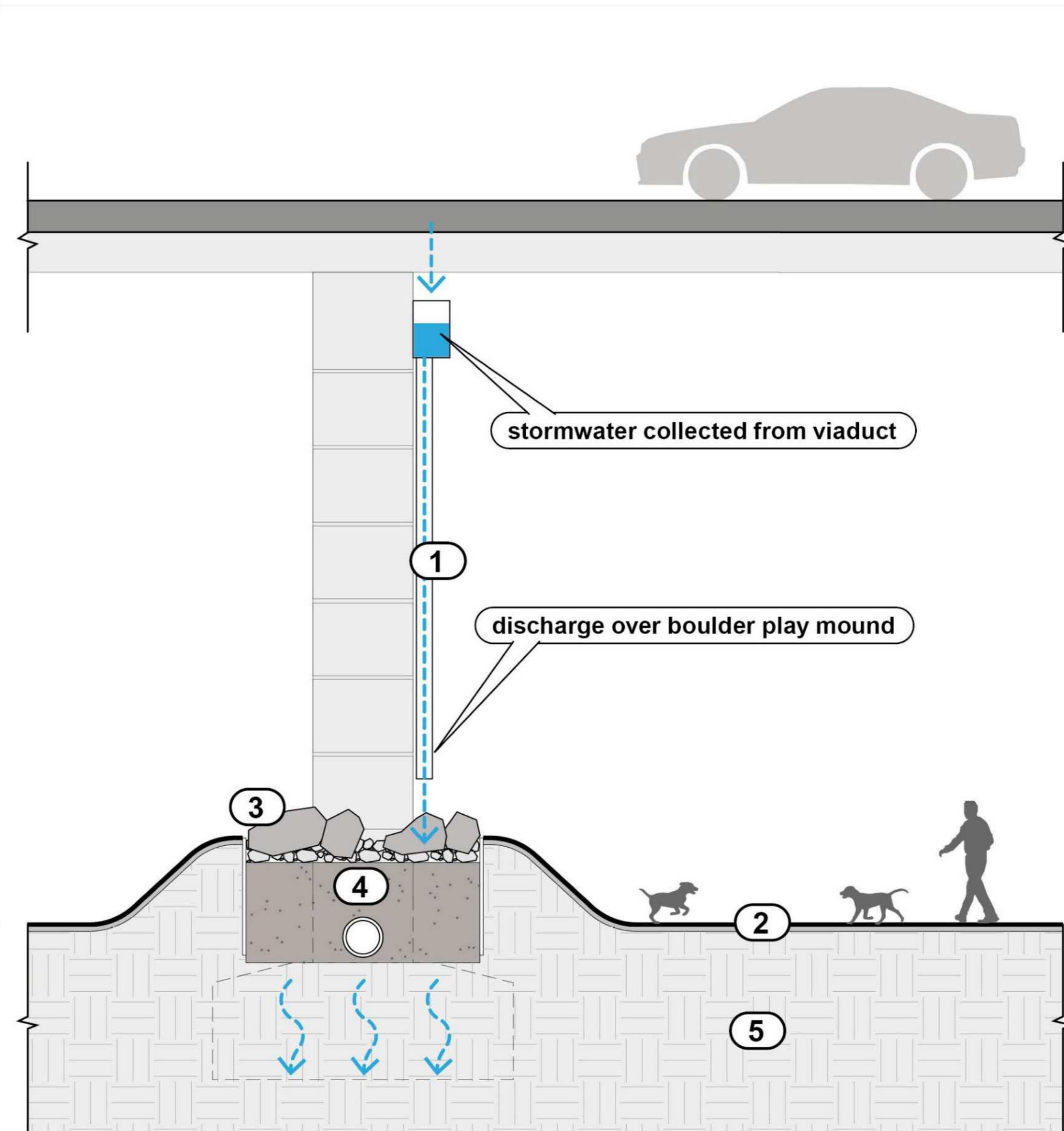
downspout typology- exfiltration tank under impermeable surface



Bentway Islands
existing



Bentway Islands
off leash dog area



- ① Downspout
- ② DOLA Surface
- ③ Boulder Play Mound
- ④ Bioretention Soil
- ⑤ Subgrade

Bentway Islands
downspout typology – DOLA play mound

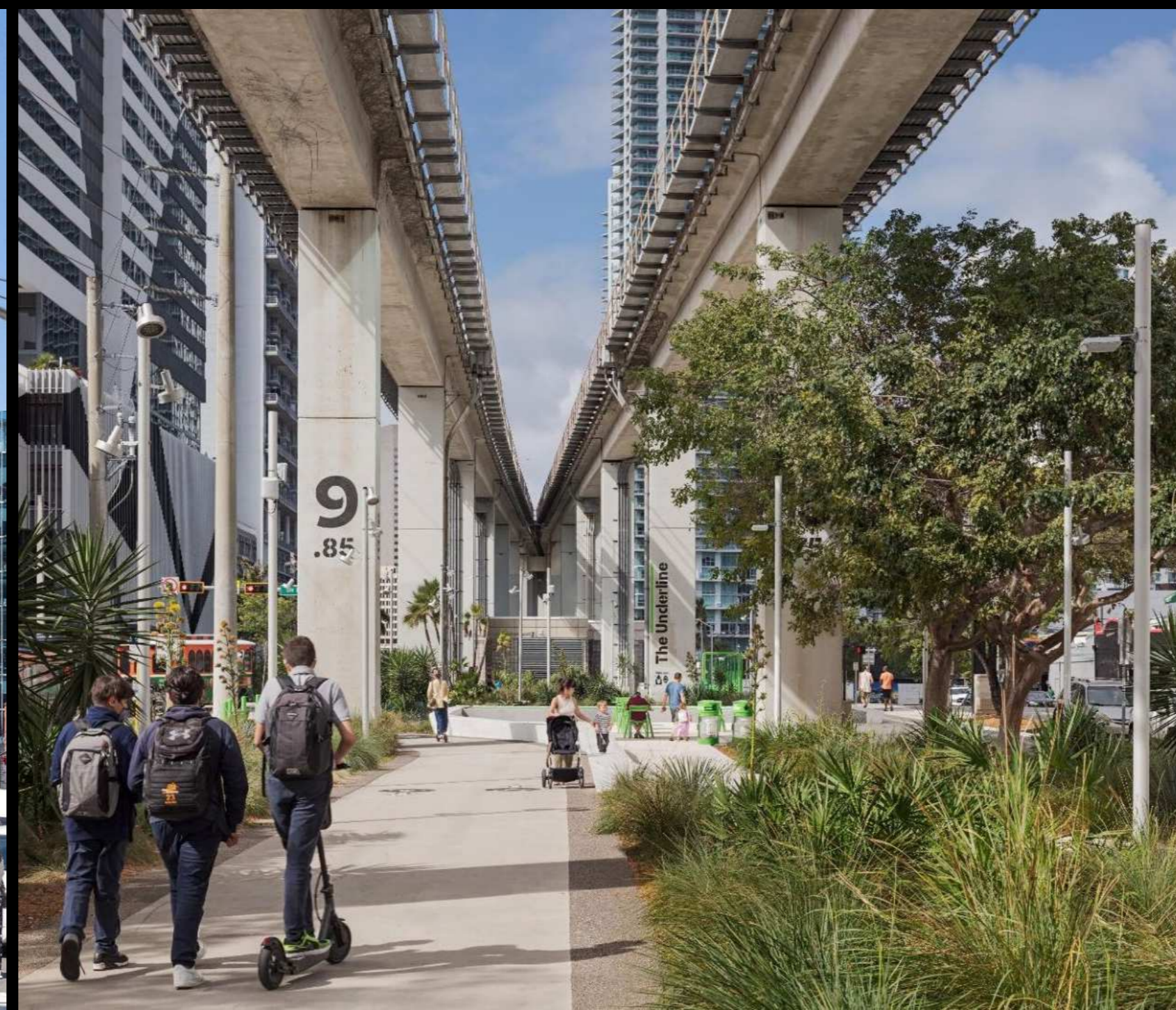
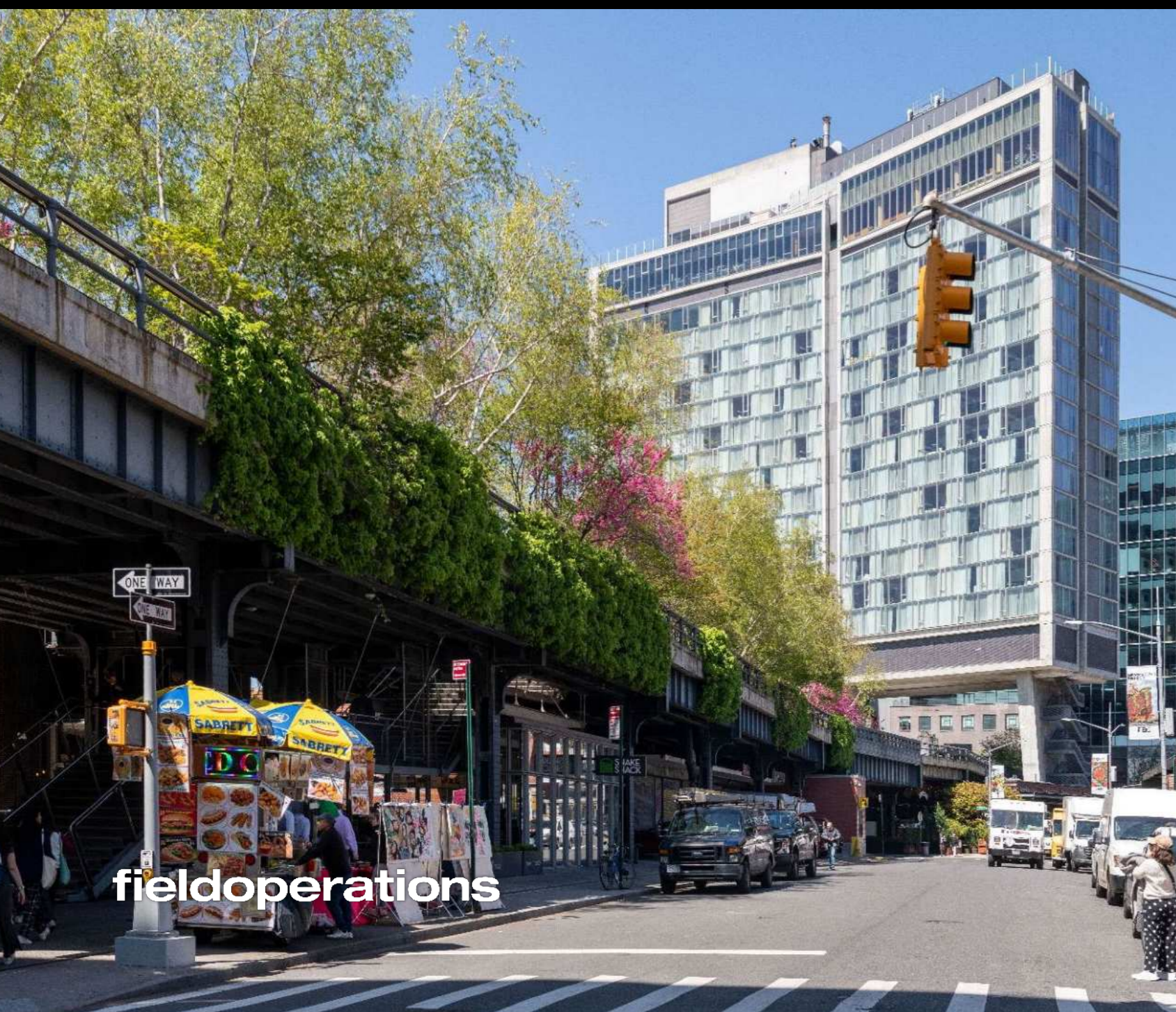
The High Line



The Underline



The Bentway





**SOURCE
FOR STREAM**

**2026
Conference**

Canada's Premier
Stormwater and Erosion
and Sediment Control
Conference

Thank you to our sponsors!

EXECUTIVE SPONSORS



MEDIA SPONSORS



HOSTS

Presented by:



In association with:

