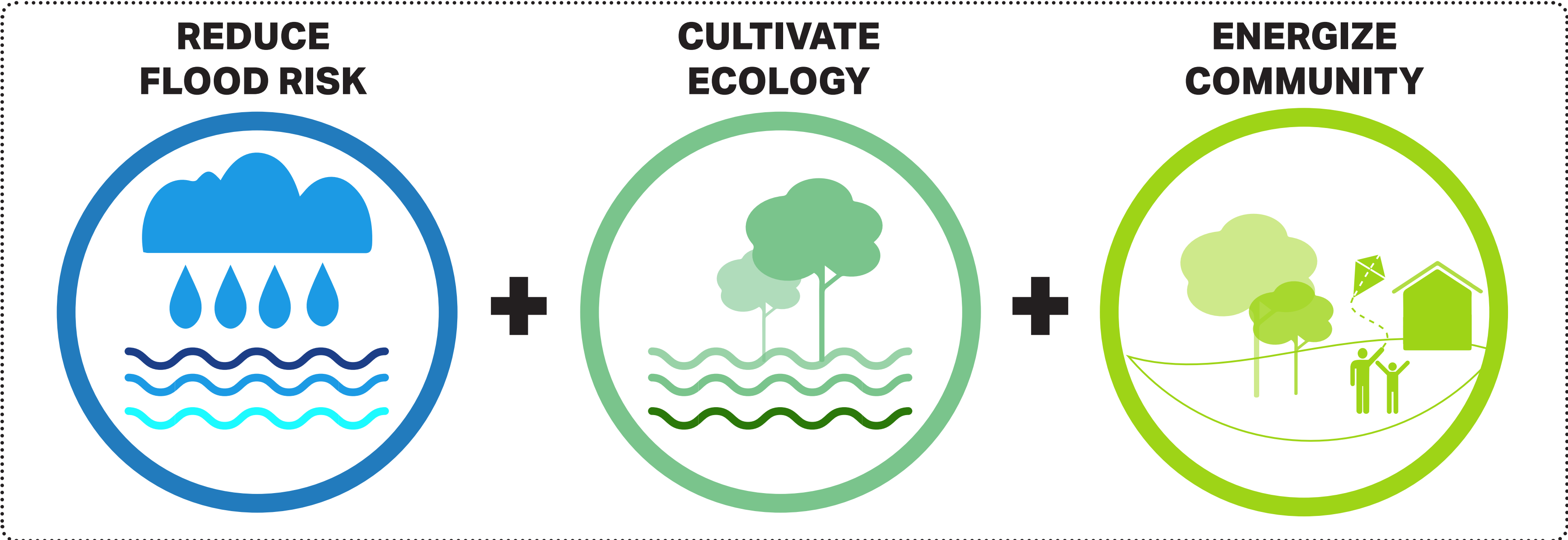


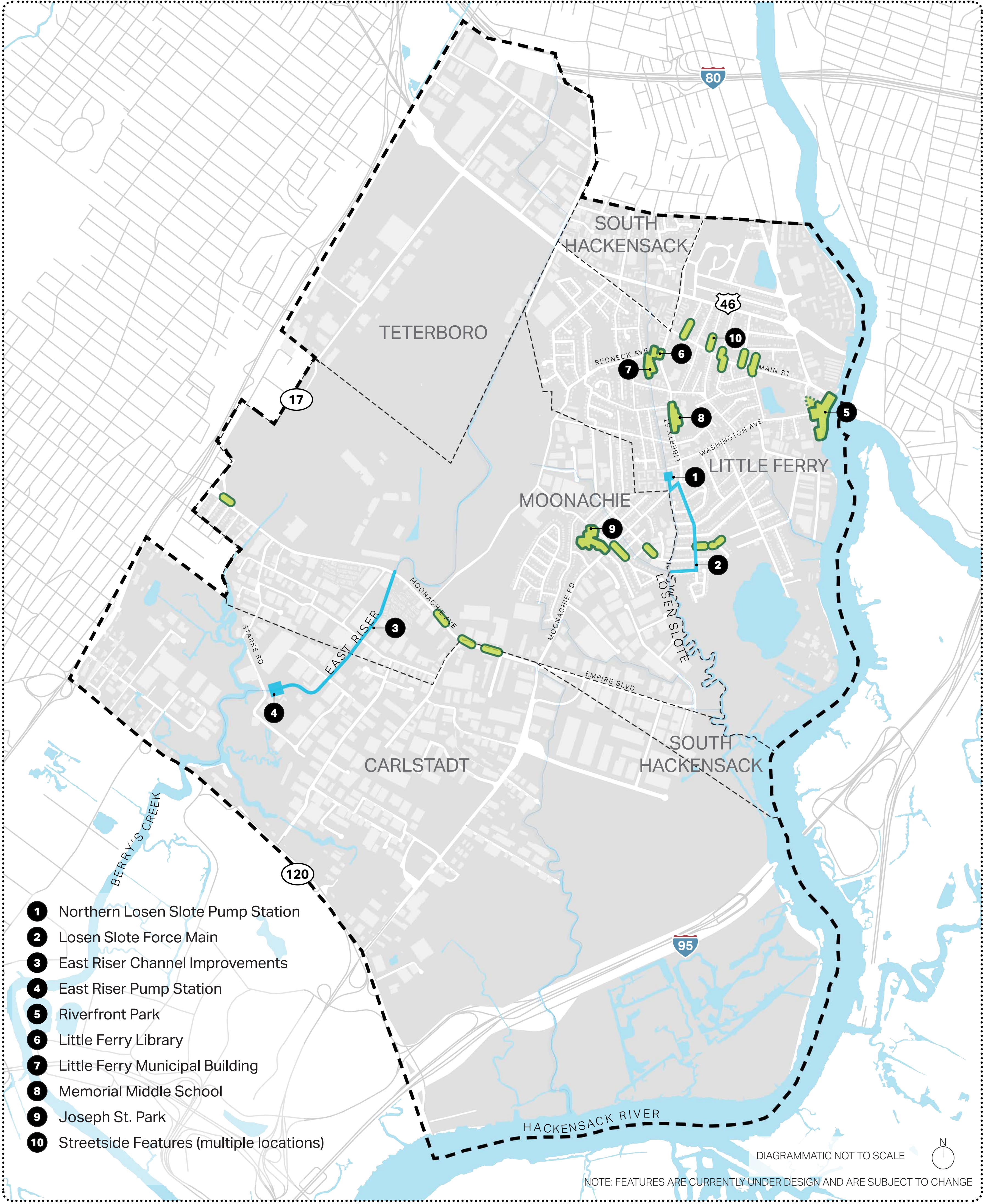
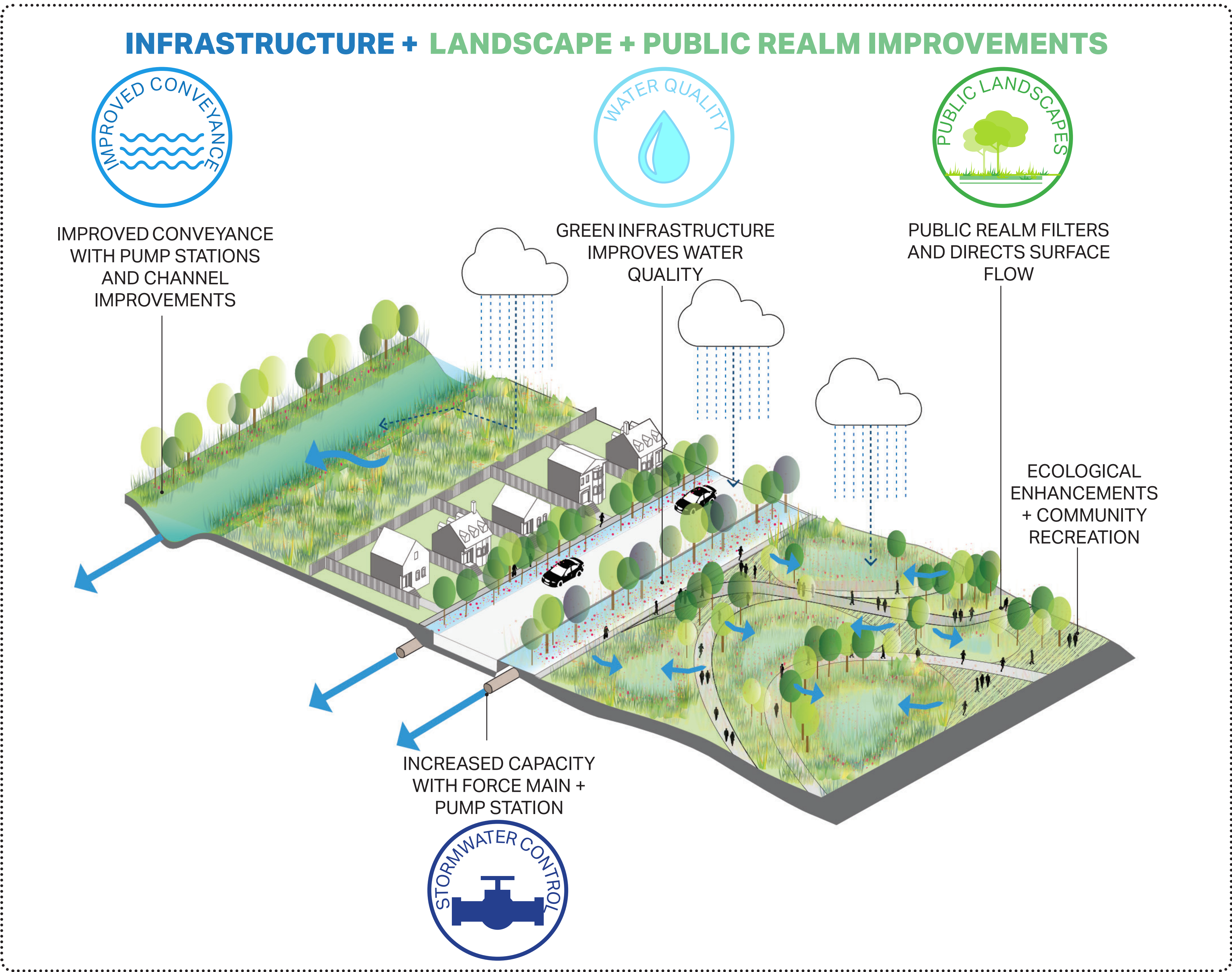
# REBUILD BY DESIGN MEADOWLANDS: OVERALL PROJECT

## DESIGN PURPOSE + FEATURES

### FLOOD RISK REDUCTION + CO-BENEFITS



### DESIGN APPROACH

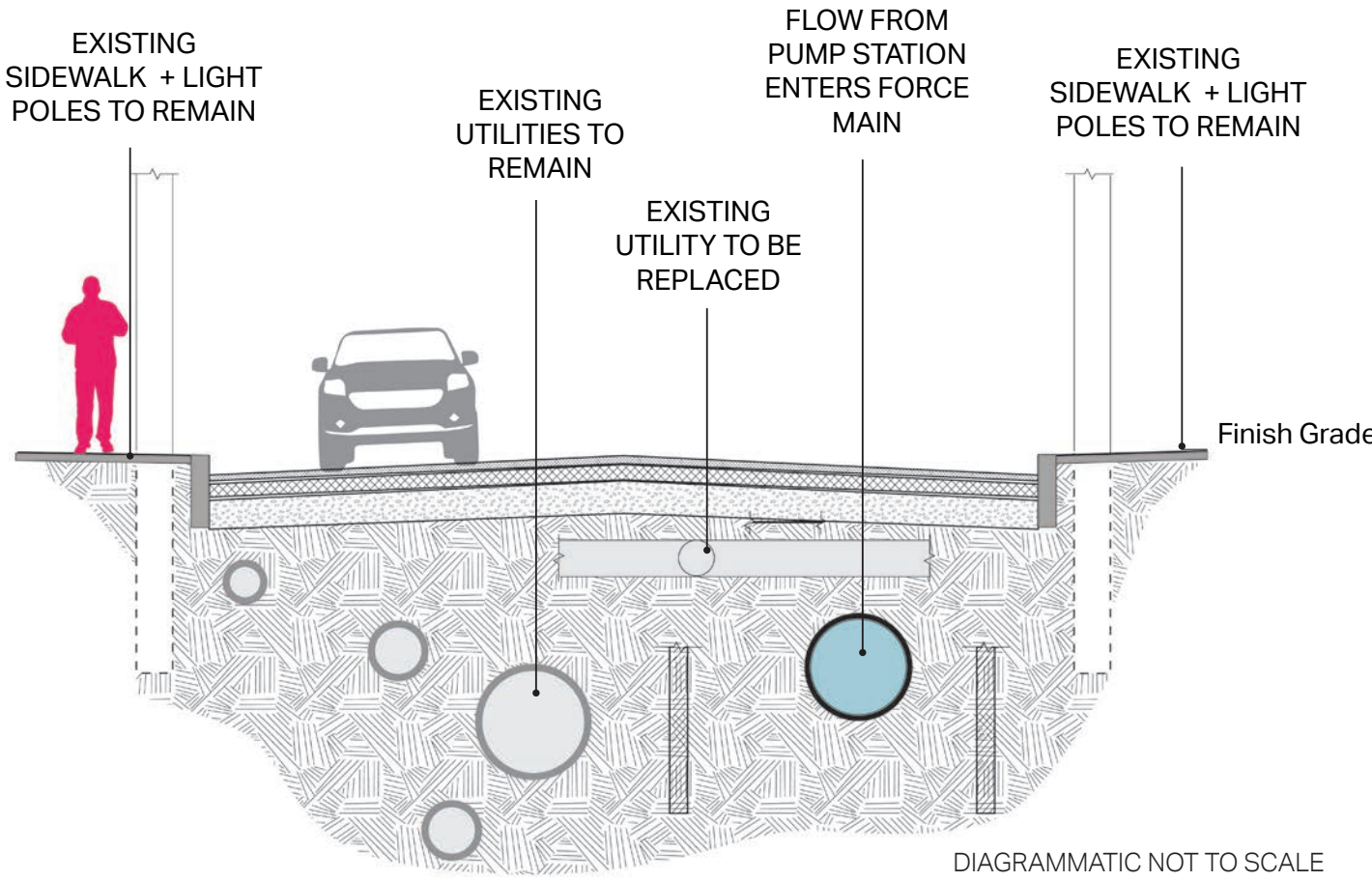




LOSEN SLOTE

LOSEN SLOTE  
FORCE MAIN

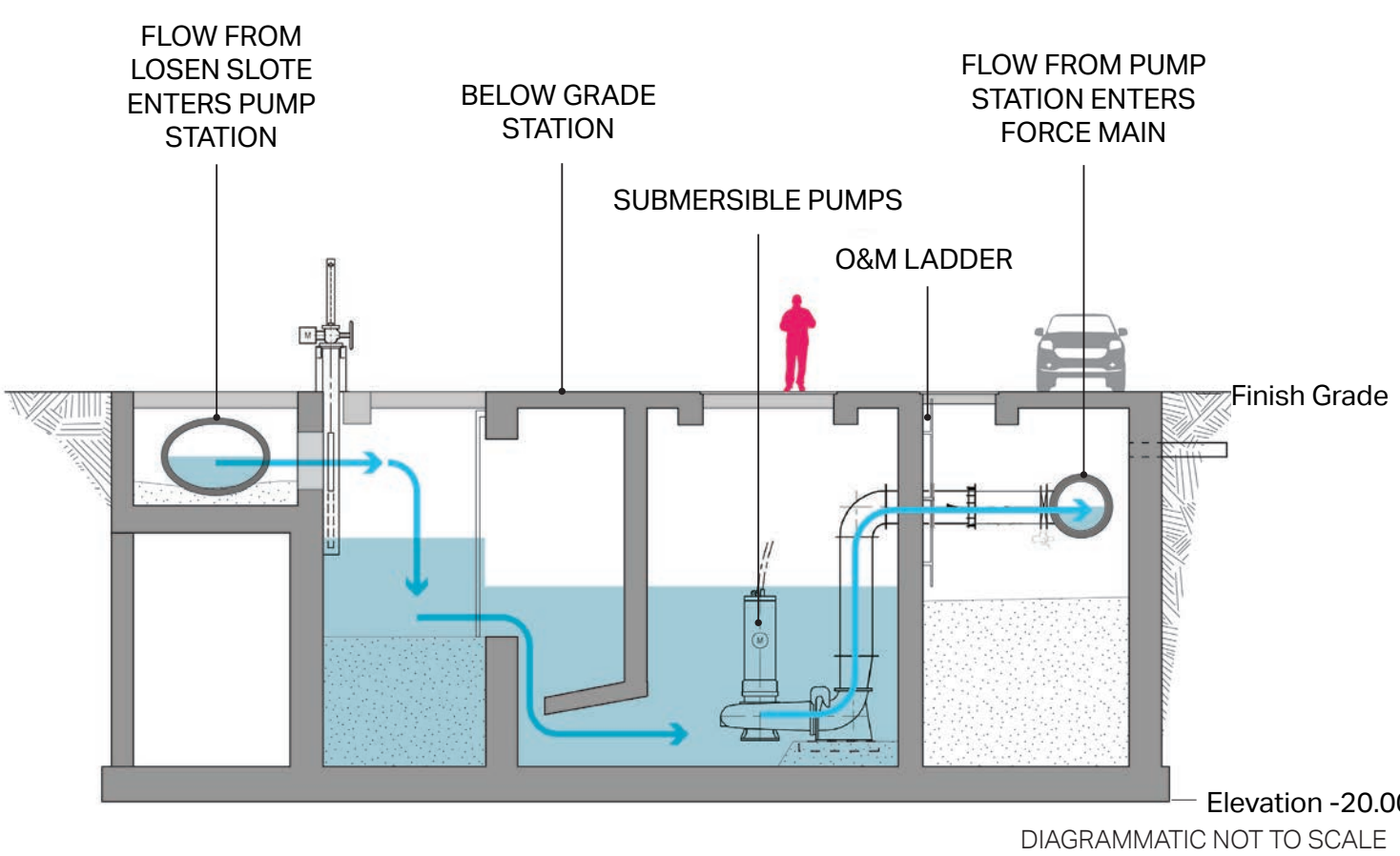
- The Force Main runs ~2,900 feet
- Bypasses a bottleneck in the stormwater flow within Losen Srote drainage area
- Discharges into open channel at Birch St.



LOSEN SLOTE FORCE MAIN

NORTHERN LOSEN SLOTE  
PUMP STATION

- Draws stormwater out of Losen Srote and into a new force main
- Bypasses majority of existing Losen Srote below-grade conduit

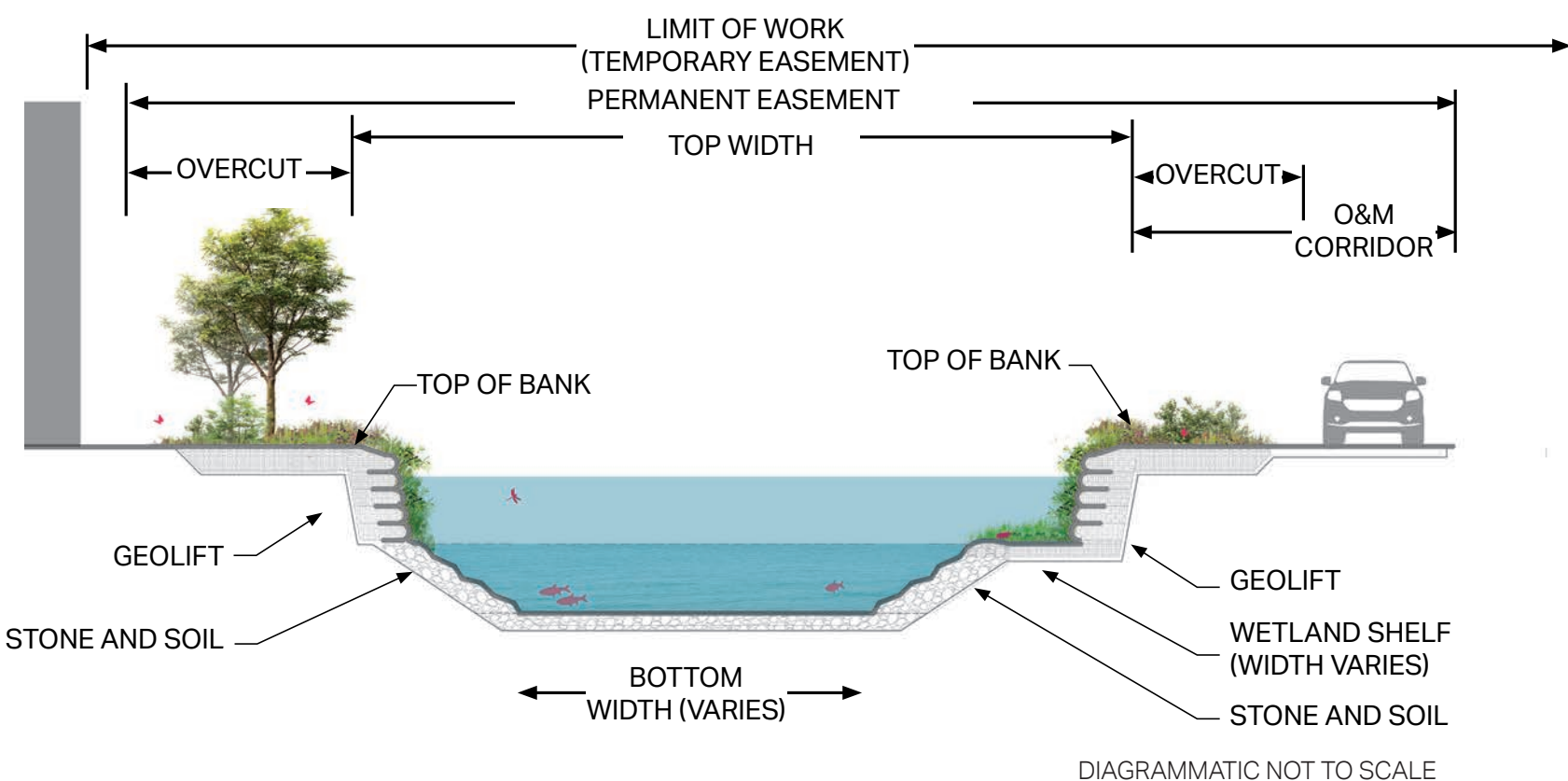


NORTHERN LOSEN SLOTE PUMP STATION

EAST RISER

EAST RISER  
CHANNEL IMPROVEMENTS

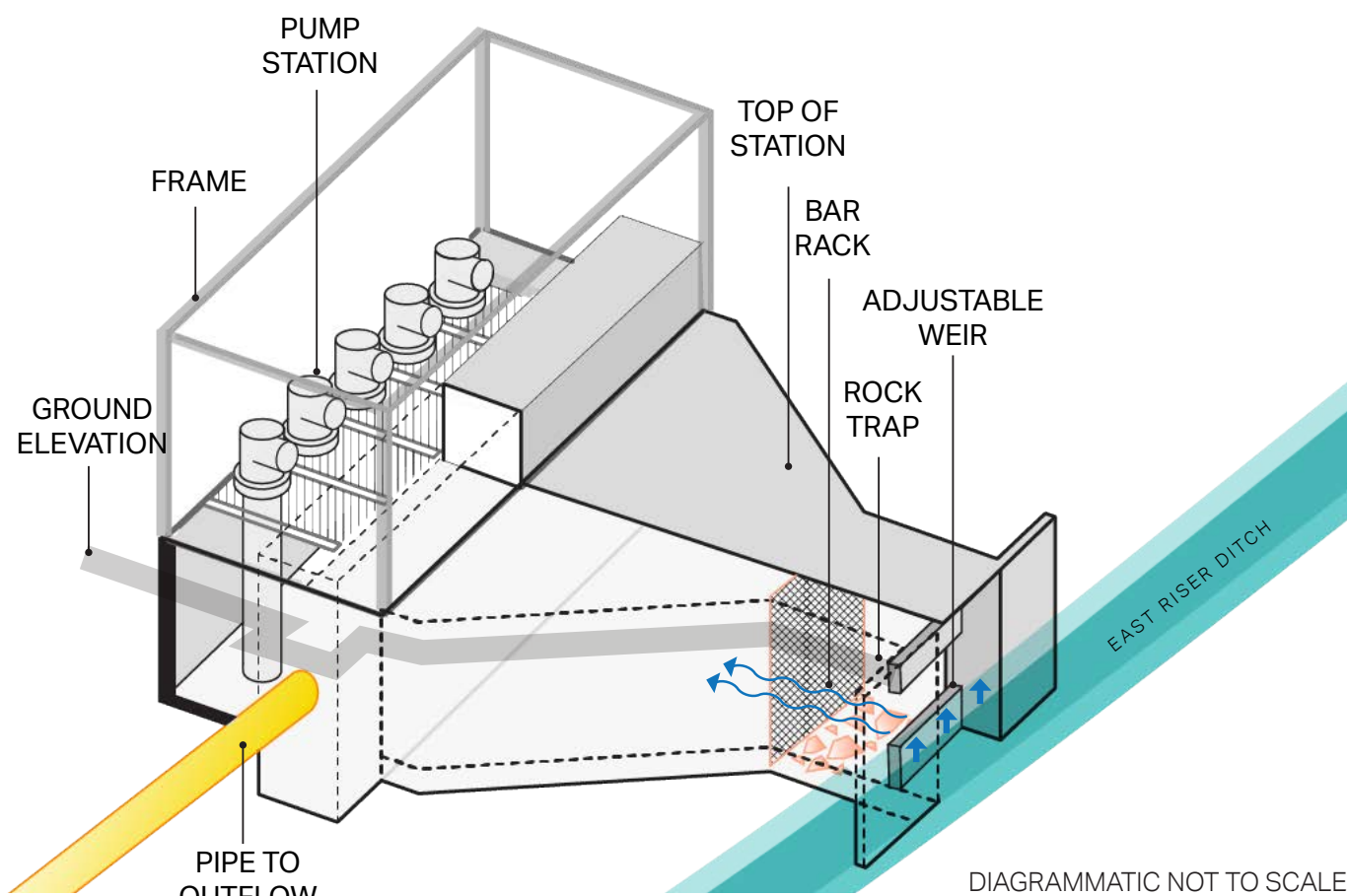
- Channel design improves water conveyance and reduces flood risk
- Dredging, widening and embankment stabilization
- Bridge culvert and railroad bridge replacements
- O&M corridor
- Native planting



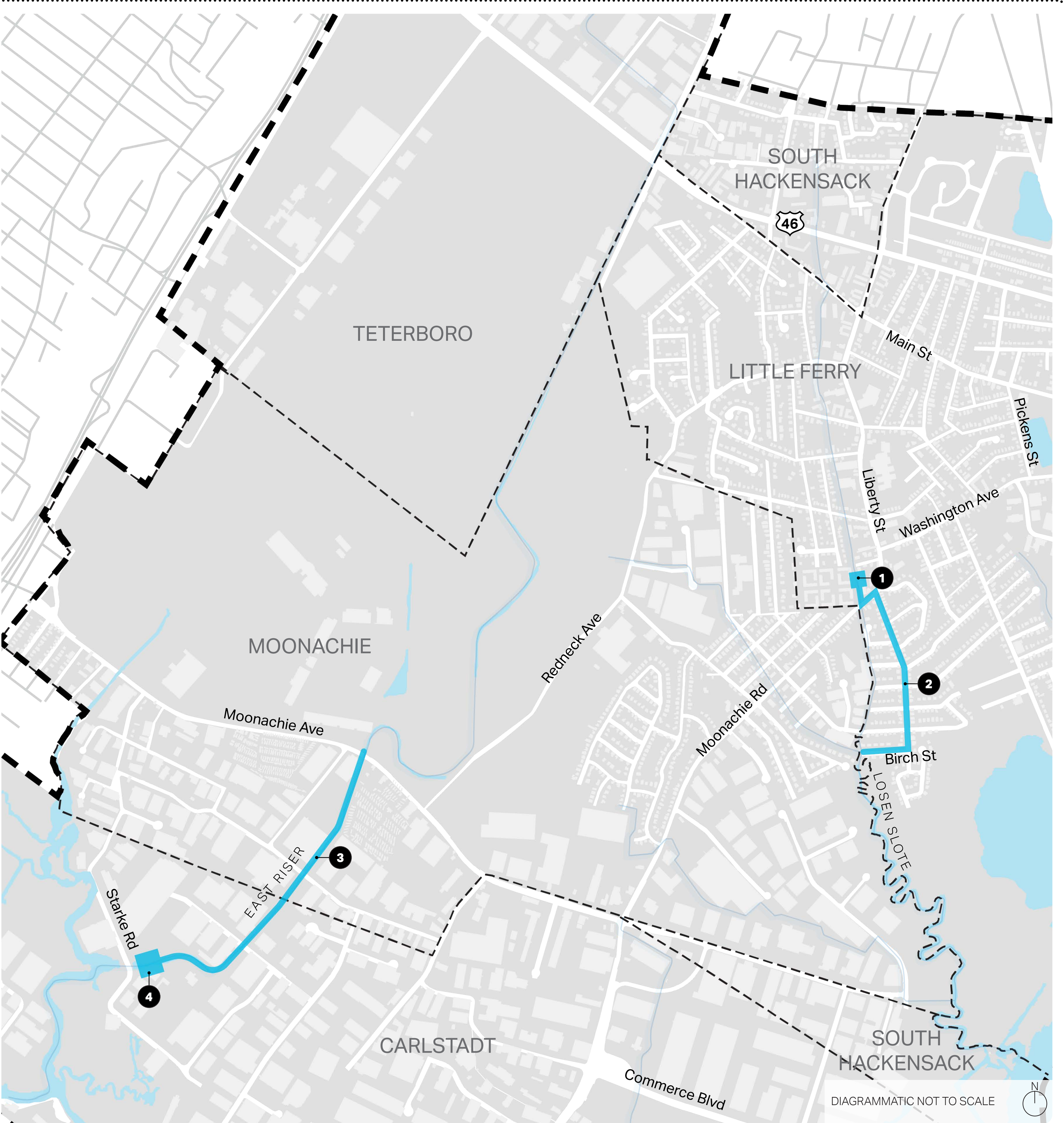
EAST RISER CHANNEL IMPROVEMENTS

EAST RISER  
PUMP STATION

- Submersible pumps
- Activates and pumps water beyond tide gates when water levels in East Riser Ditch reach 2' EL.



EAST RISER PUMP STATION



- 1 Northern Losen Srote Pump Station
- 2 Losen Srote Force Main
- 3 East Riser Channel Improvements
- 4 East Riser Pump Station



# RIGHT-OF-WAY GREEN INFRASTRUCTURE-TYPE IMPROVEMENTS

## CONCEPTUAL DESIGN

C

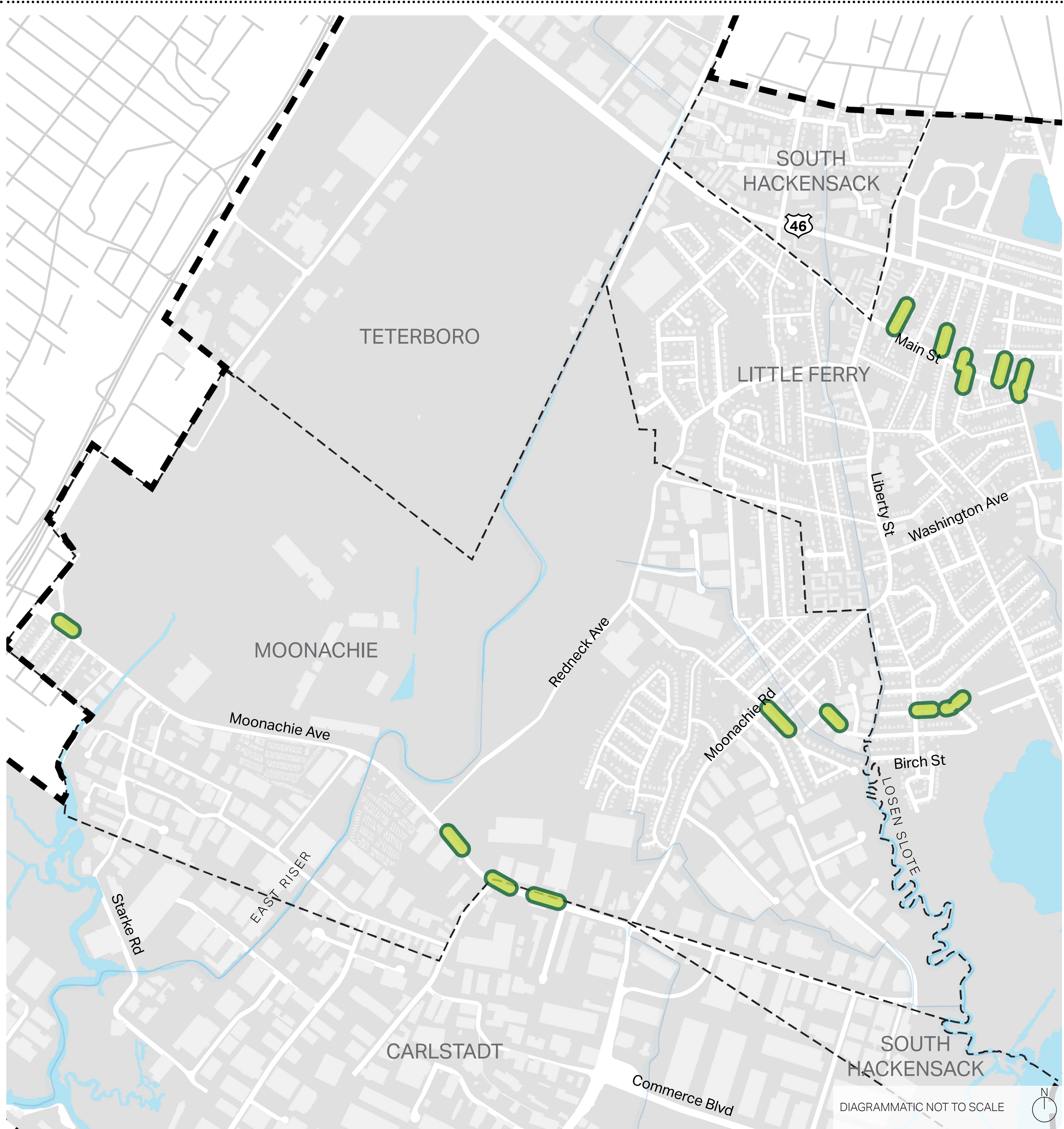
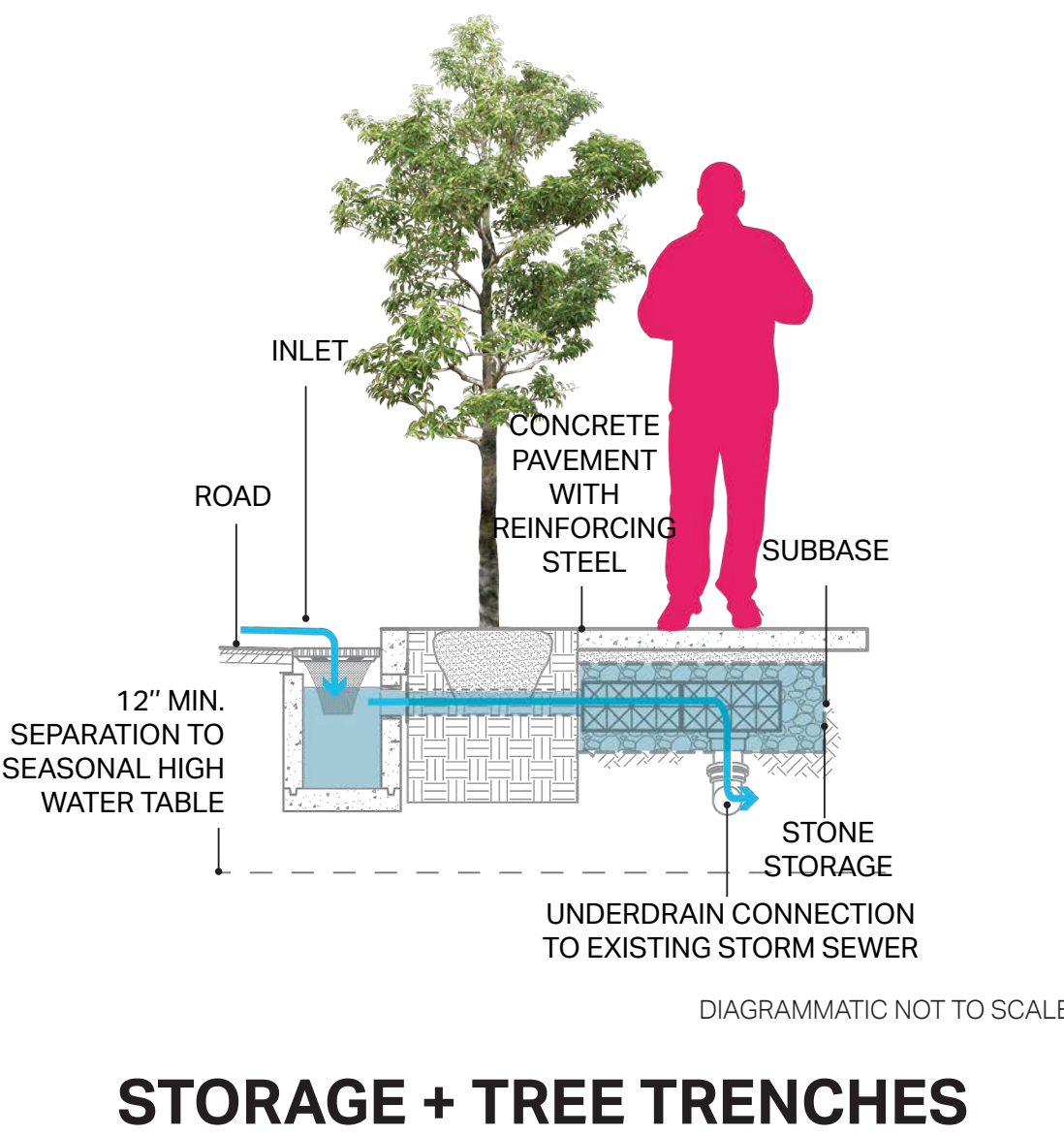
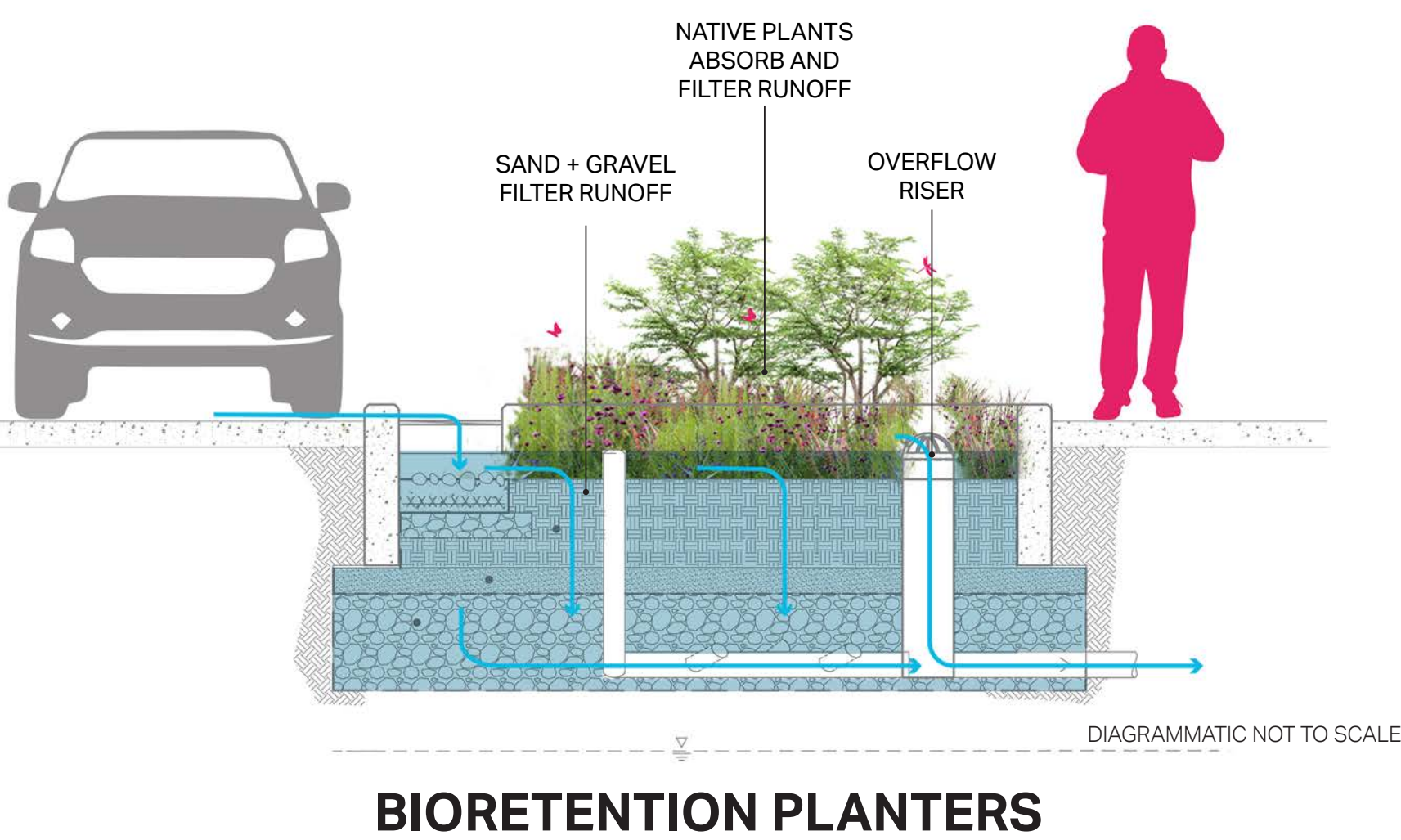
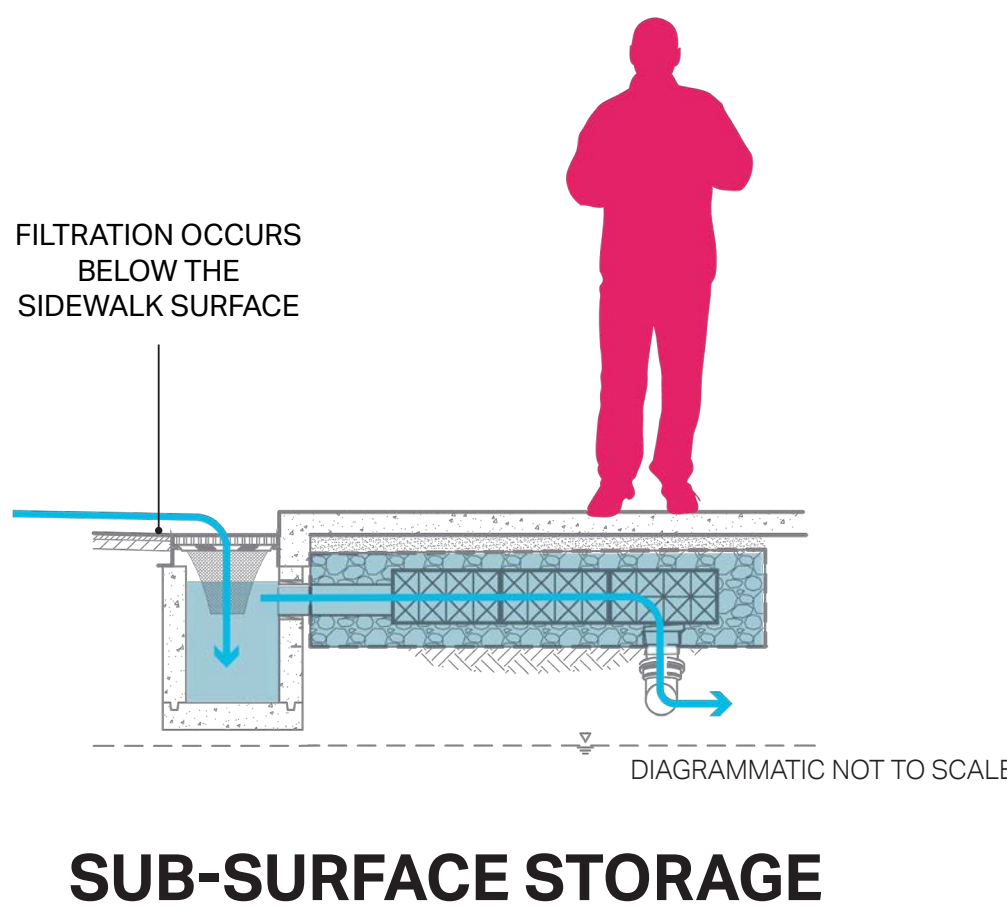
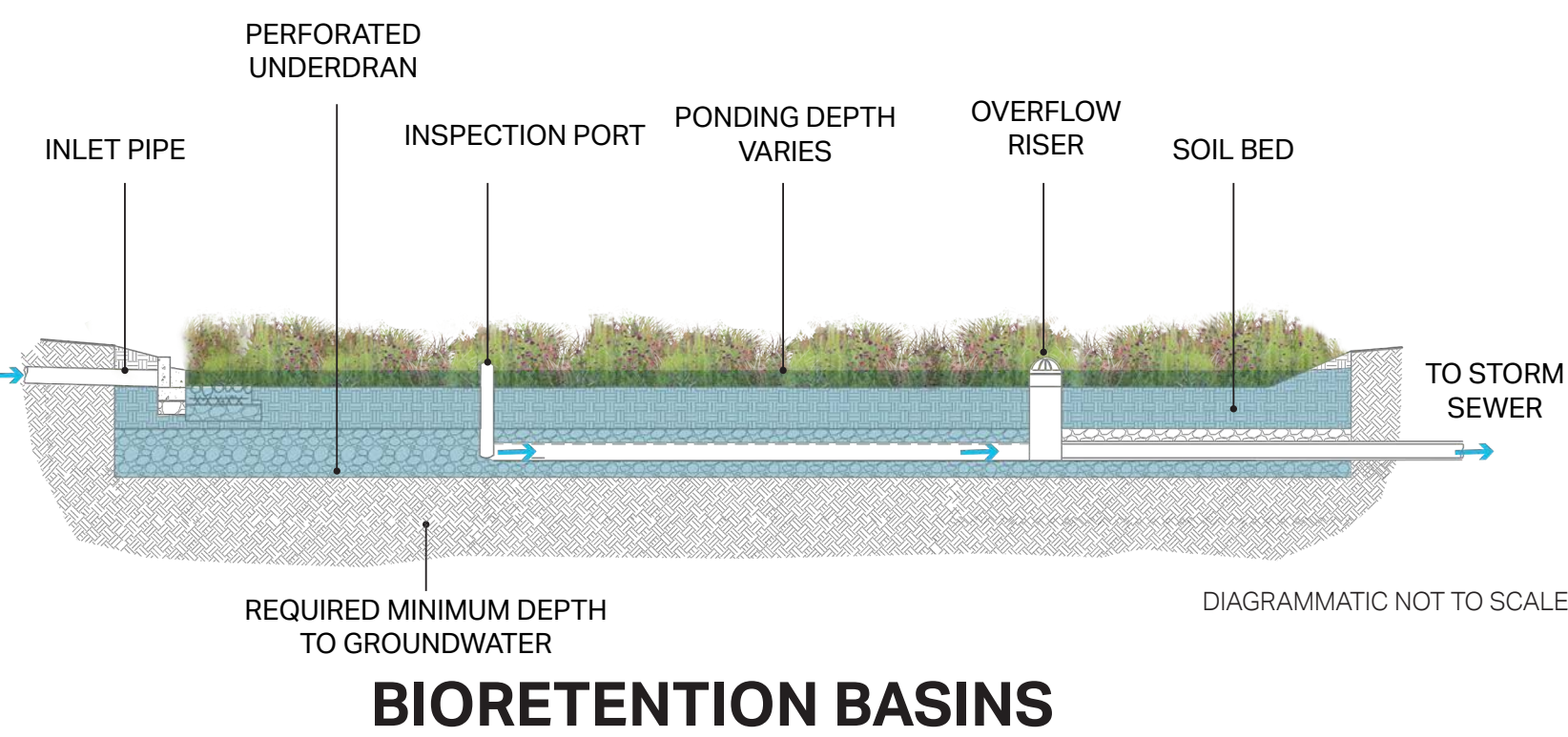
### GREEN INFRASTRUCTURE-TYPE IMPROVEMENTS

#### SYSTEM PERFORMANCE

- Numerous system locations throughout project area
- Filtering roadway runoff
- Designed to capture stormwater and then slowly release into existing grey infrastructure, reducing peak flow in the storm sewer mains
- Treating and diverting runoff from entering the sewer system at the peak of the storm
- Located within public right-of-way
- Native soils have poor infiltration capacity and high groundwater limits application in some areas
- Treats smaller, more frequent storms
- Some types include vegetation or trees, while others are below the surface.

#### 4 PRIMARY TYPES UNDER CONSIDERATION\*

\*Alternative designs being considered where shallow groundwater is present. Final designs are not yet confirmed.



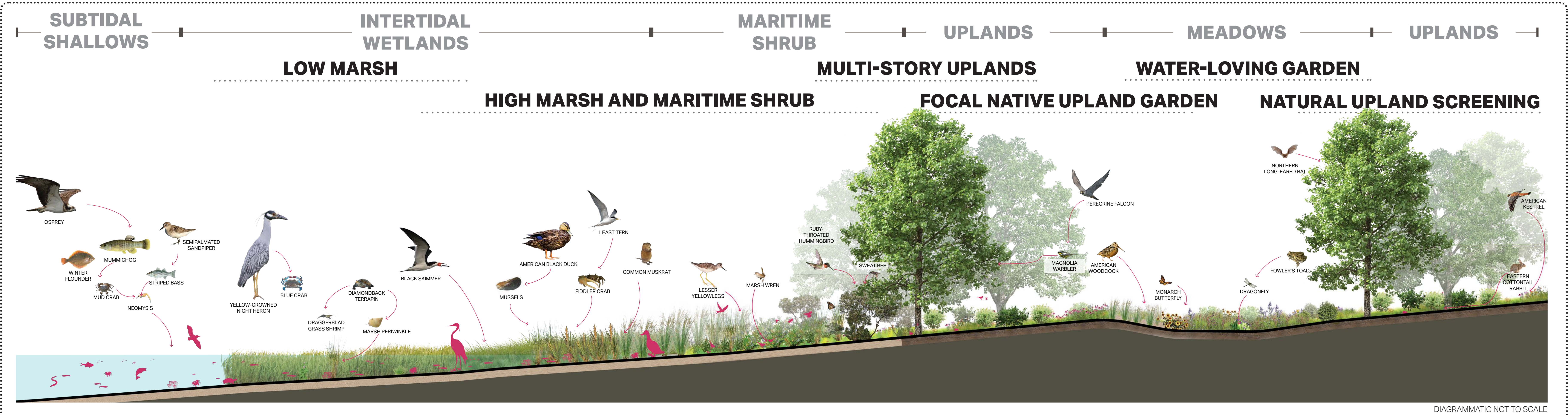


# REBUILD BY DESIGN MEADOWLANDS: ECOLOGICAL DESIGN

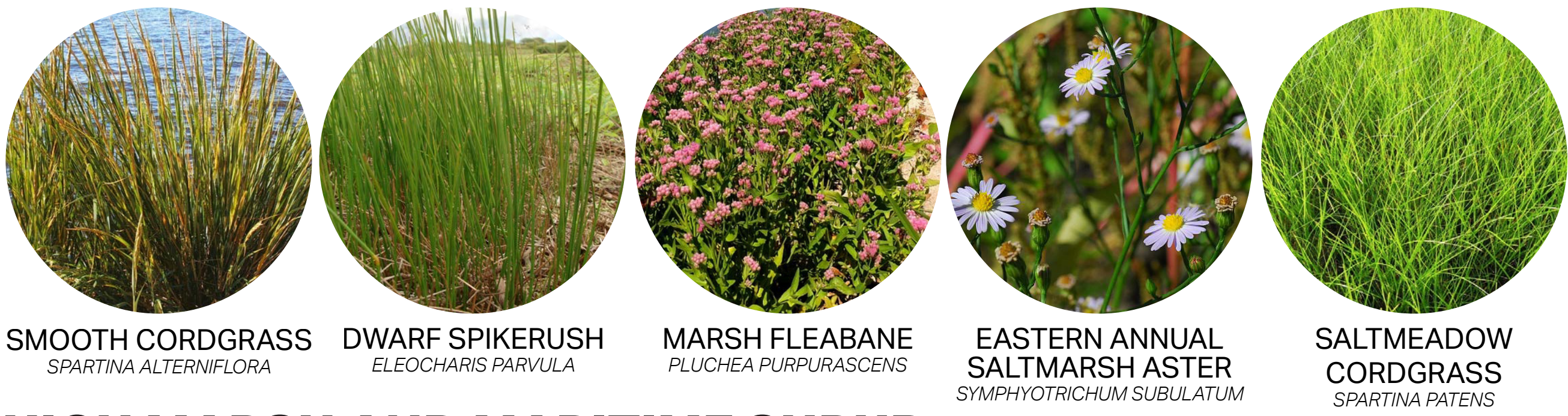
## CONCEPTUAL PLANTING DESIGN

D

### MEADOWLANDS TYPICAL ECOLOGICAL HABITATS



#### LOW MARSH



#### HIGH MARSH AND MARITIME SHRUB



#### MULTI-STORY UPLANDS



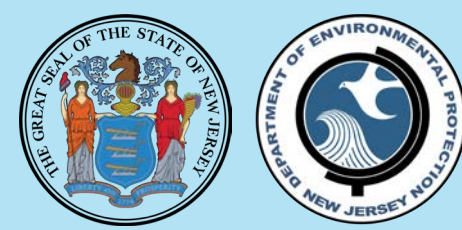
#### FOCAL NATIVE UPLAND GARDEN



#### WATER-LOVING GARDEN



#### NATURAL UPLAND SCREENING

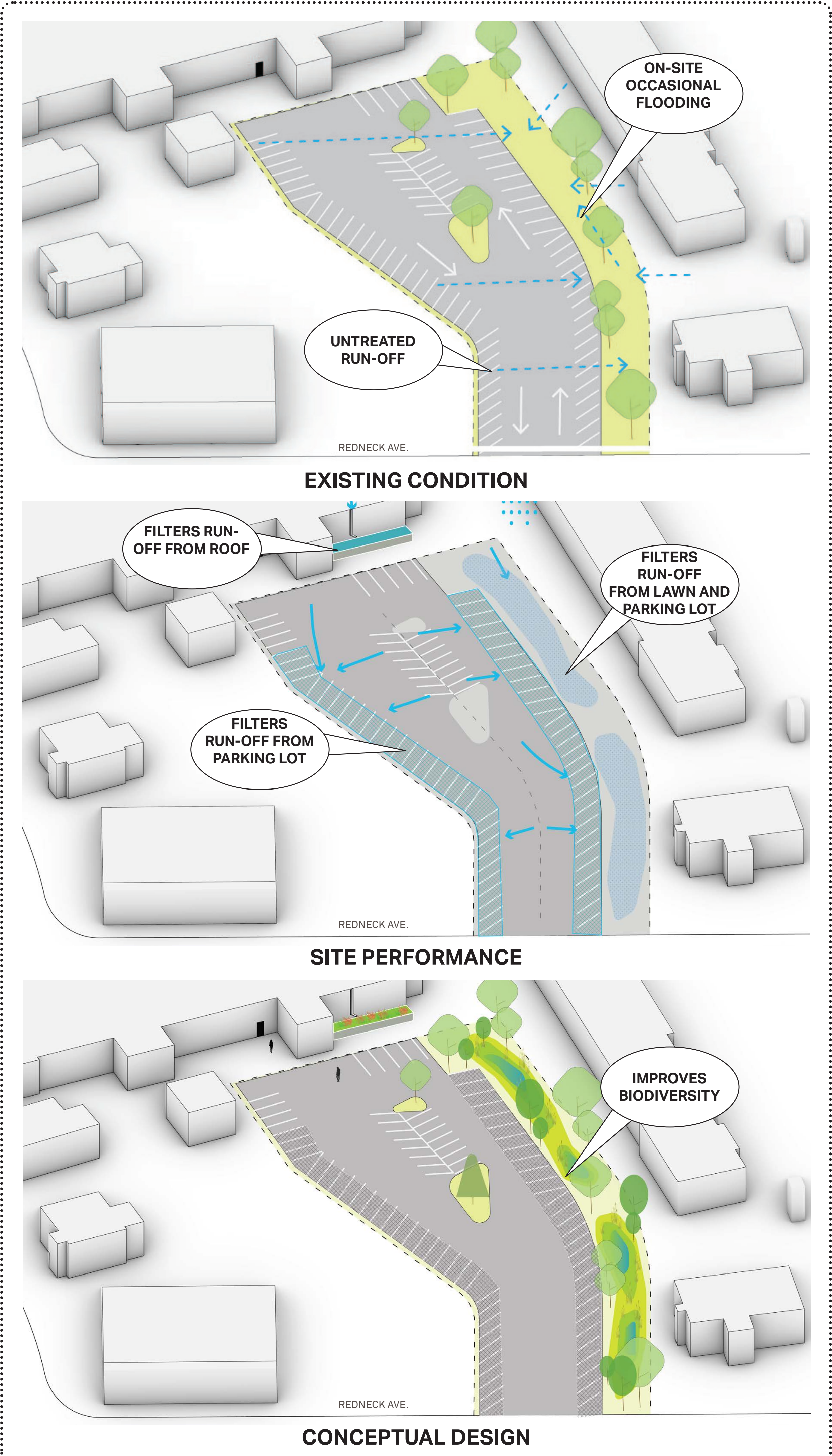




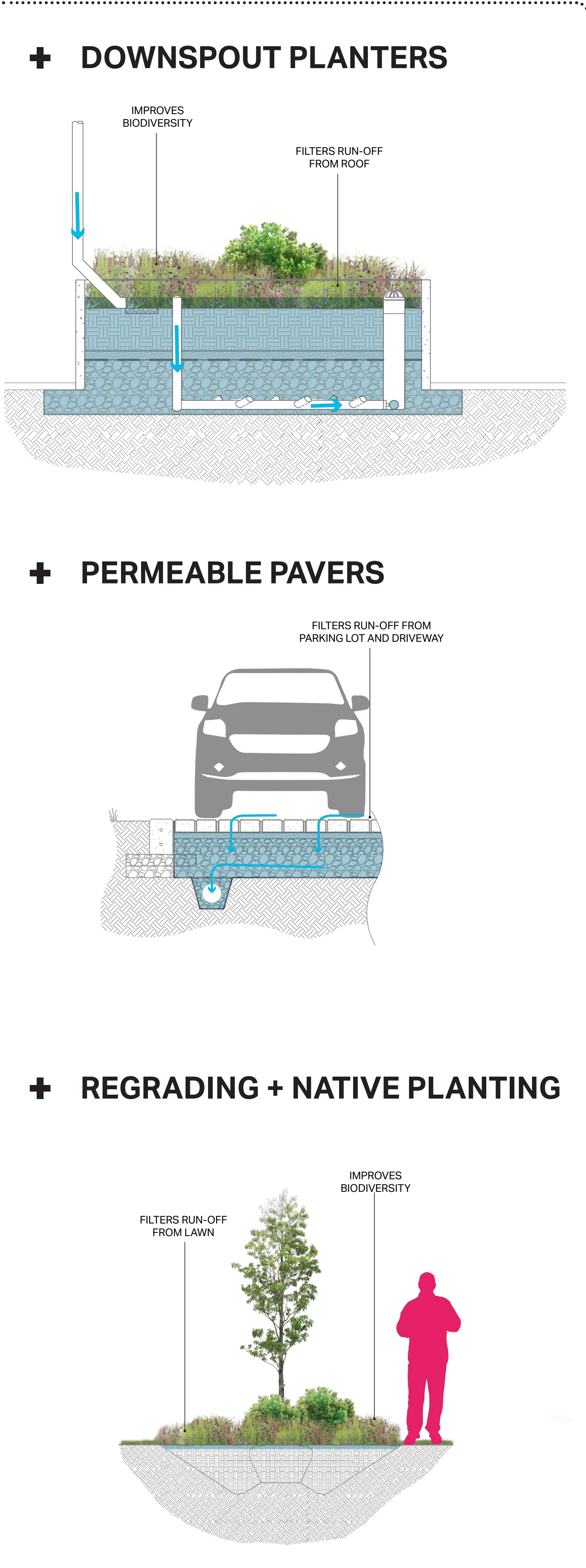
# LITTLE FERRY BOROUGH HALL

## CONCEPTUAL DESIGN

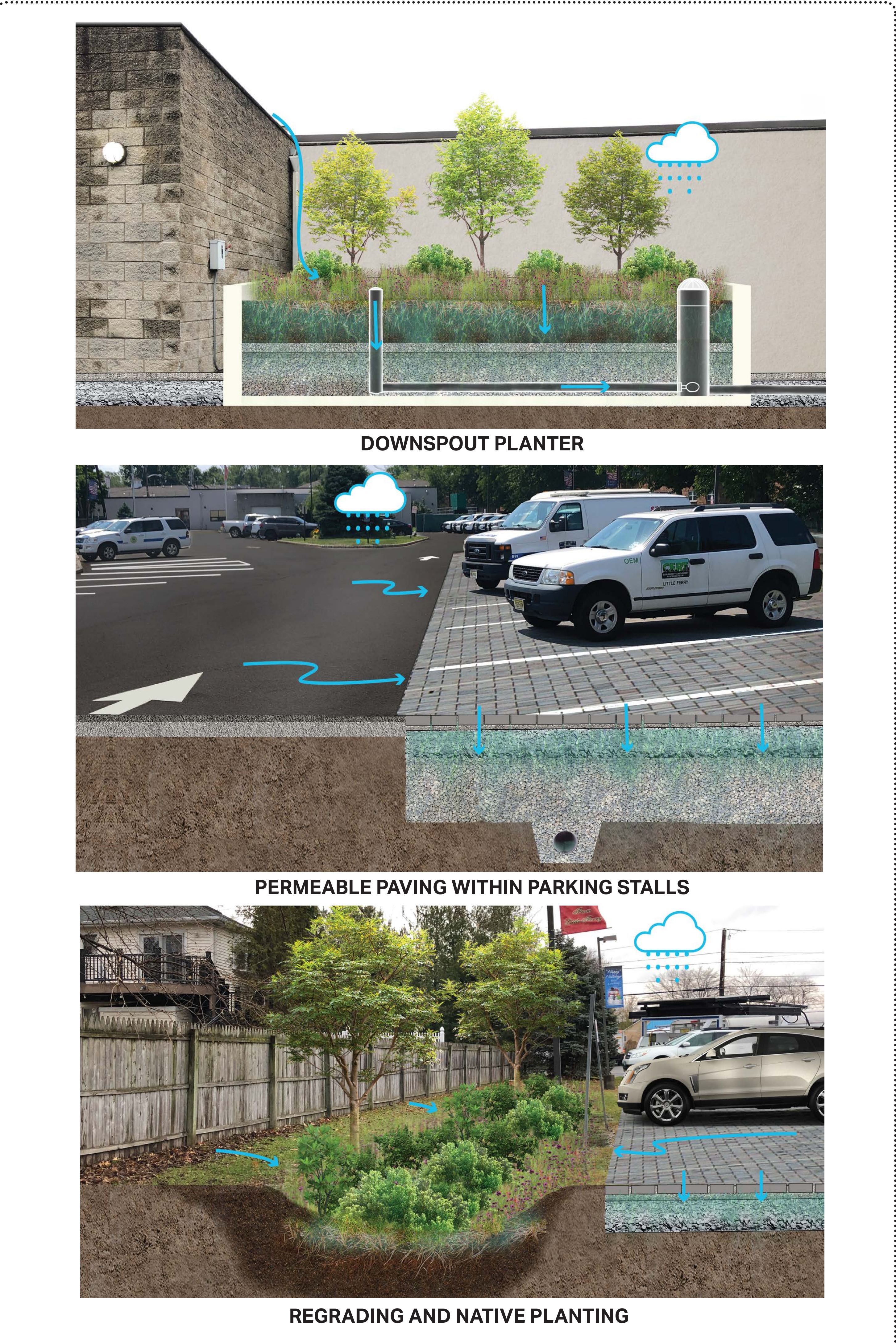
### SITE PERFORMANCE



### DESIGN STRATEGY

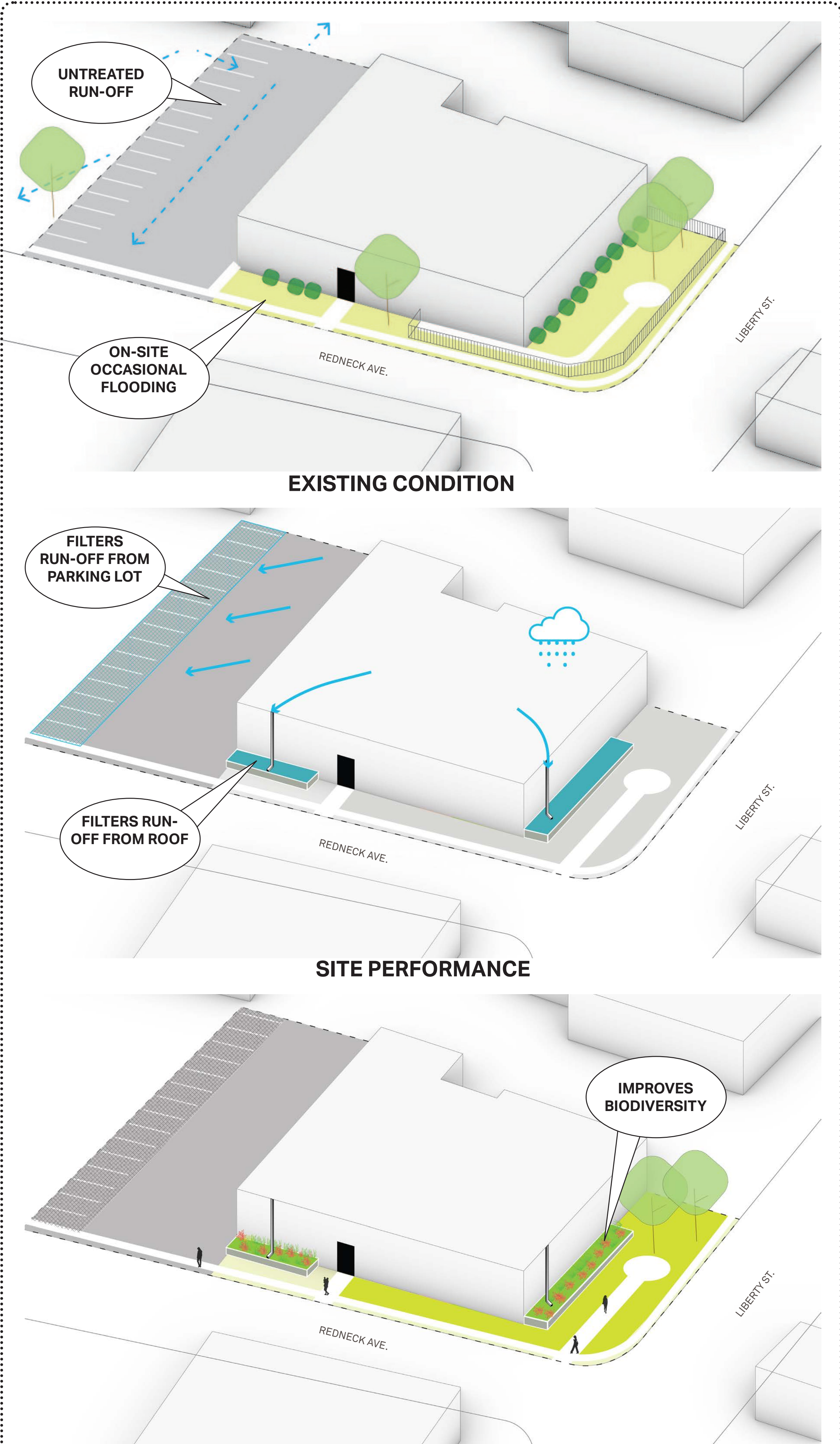


### HOW DOES IT WORK ON SITE?

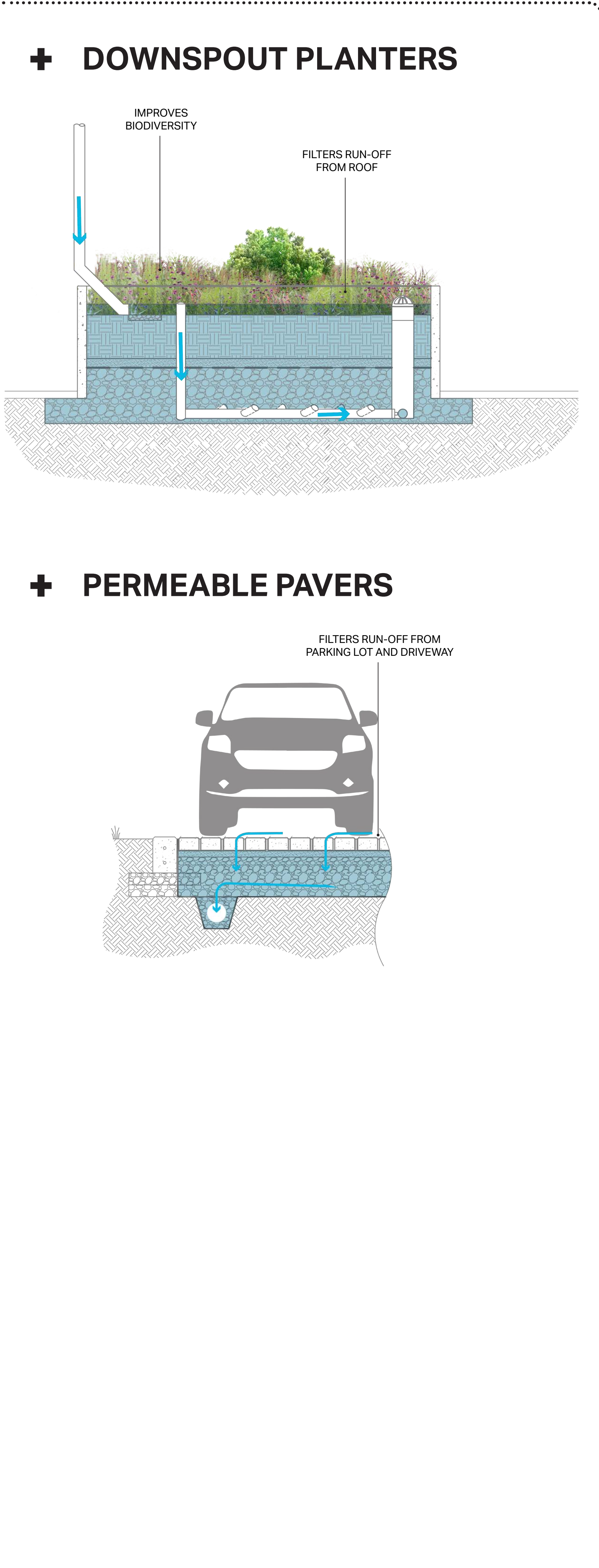




SITE PERFORMANCE



DESIGN STRATEGY

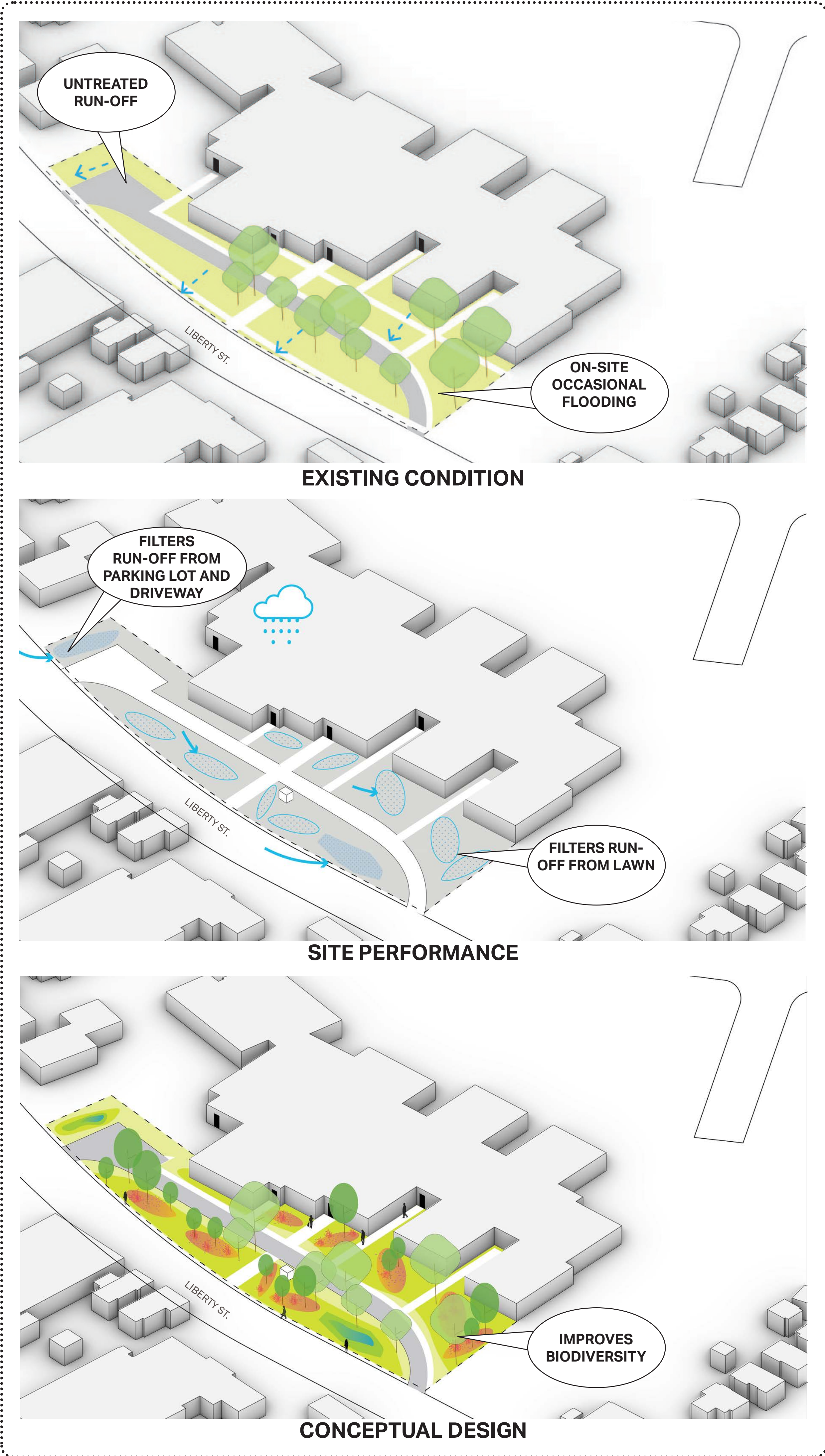


HOW DOES IT WORK ON SITE?





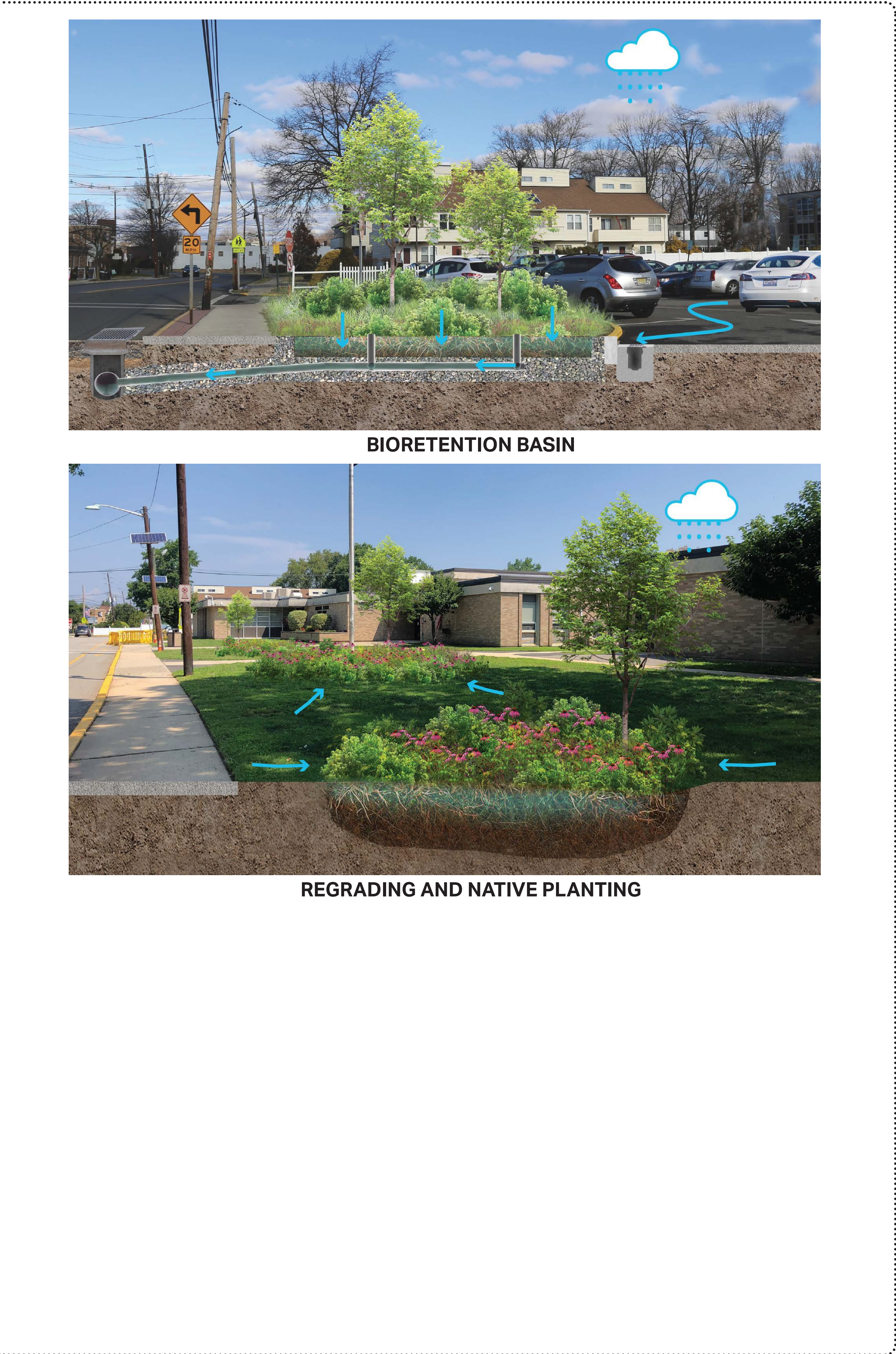
SITE PERFORMANCE



DESIGN STRATEGY



HOW DOES IT WORK ON SITE?

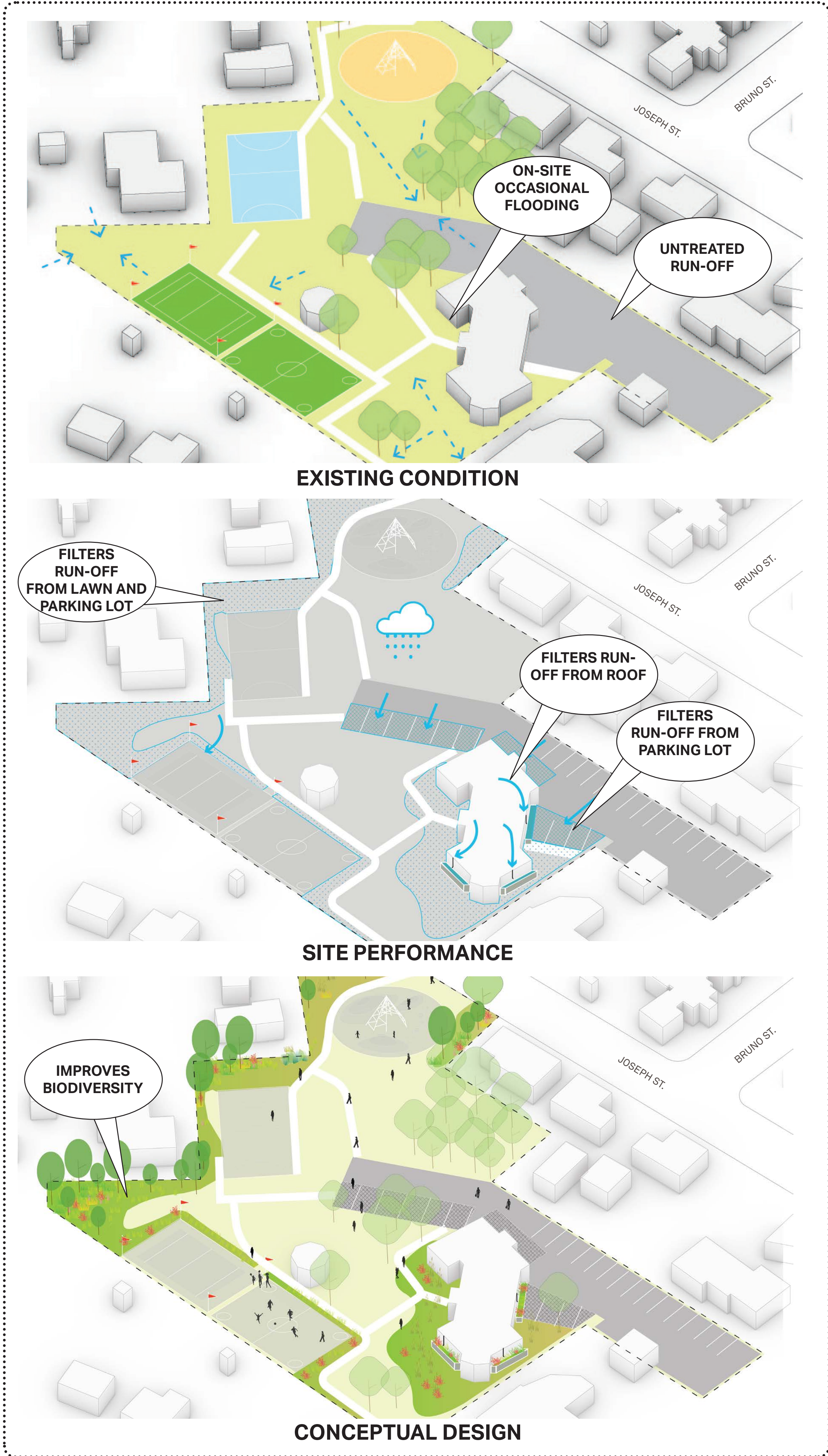




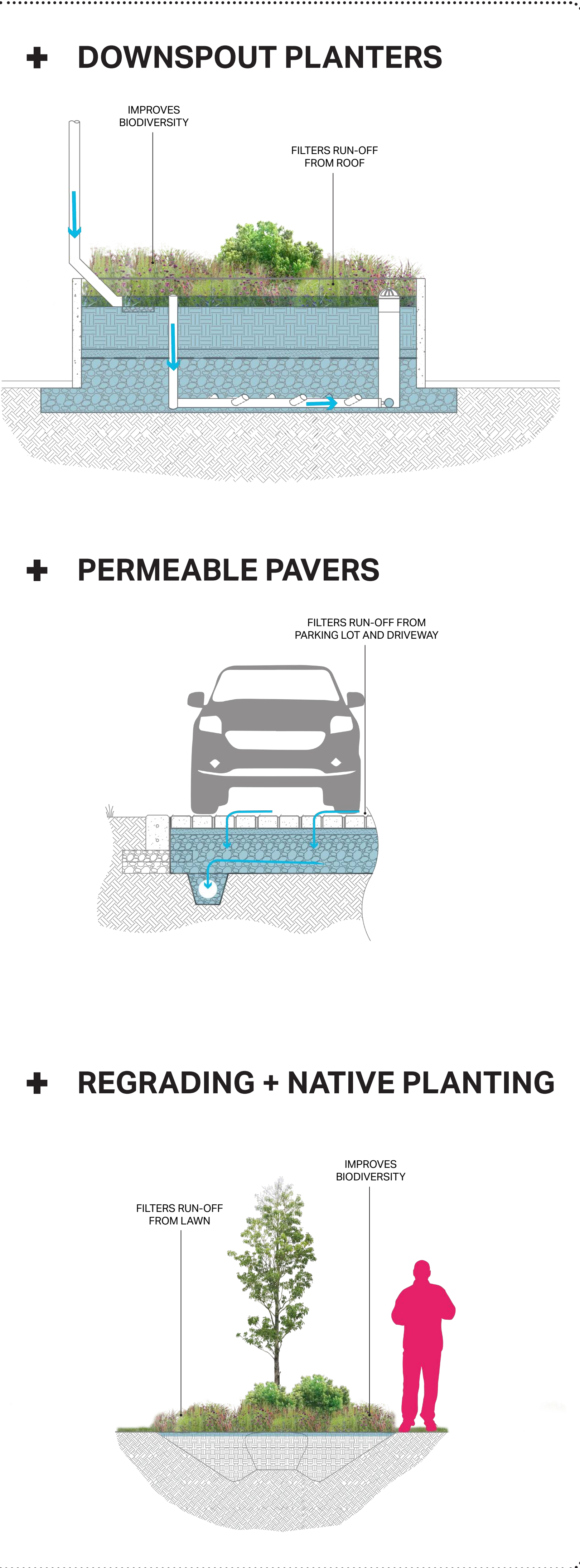
# JOSEPH ST. PARK + MOONACHIE CIVIC CENTER

## CONCEPTUAL DESIGN

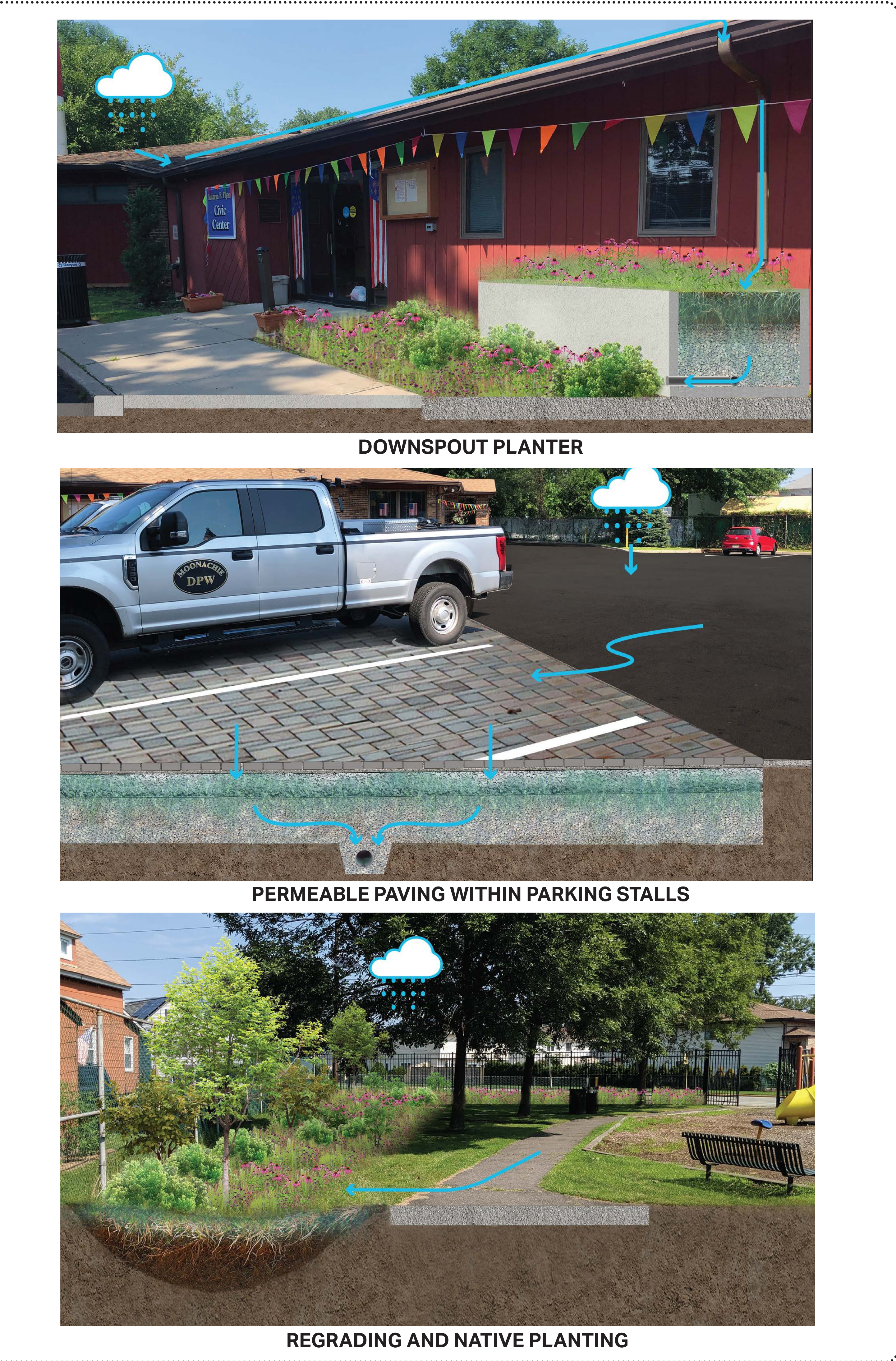
### SITE PERFORMANCE



### DESIGN STRATEGY



### HOW DOES IT WORK ON SITE?

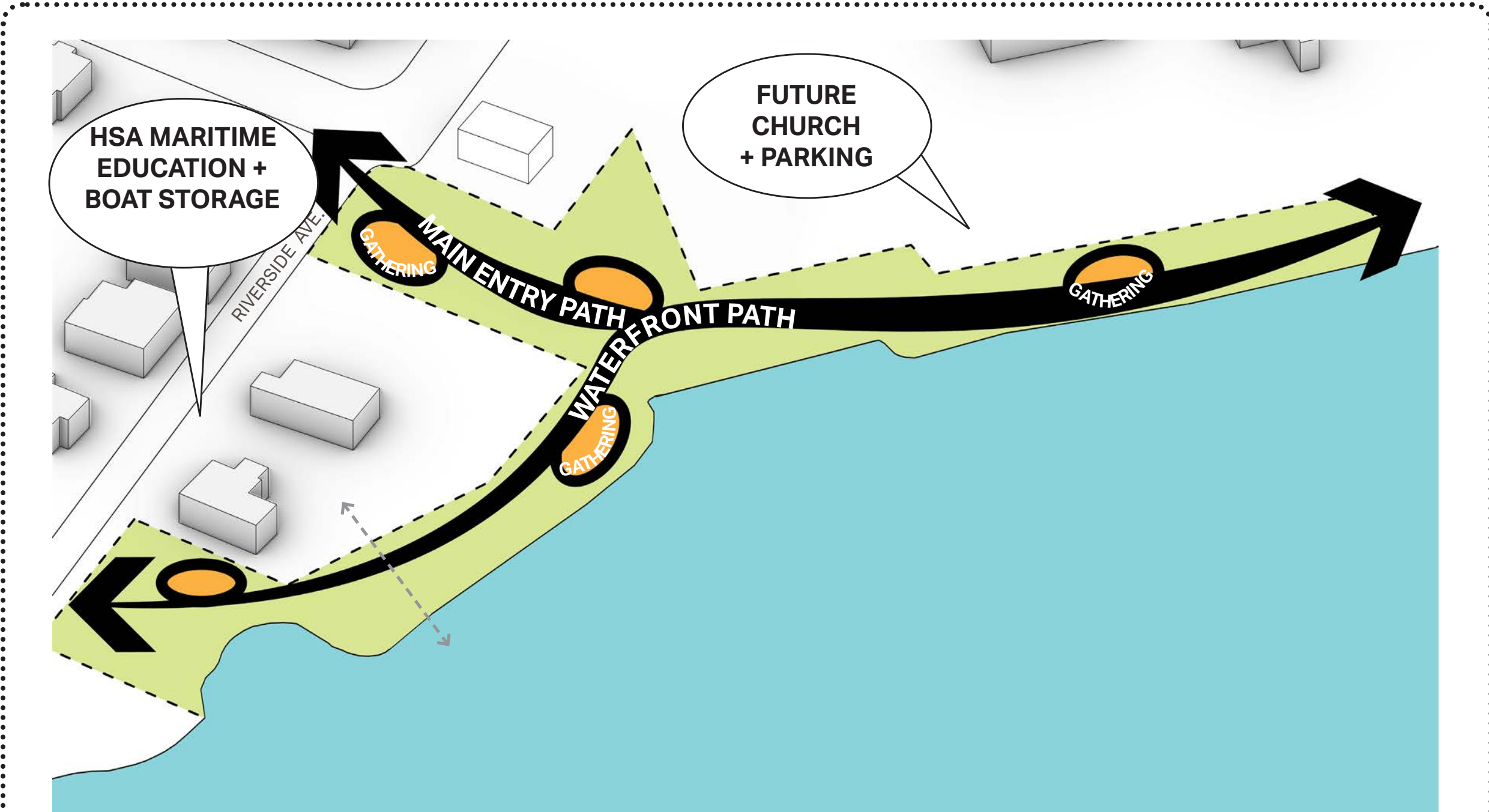




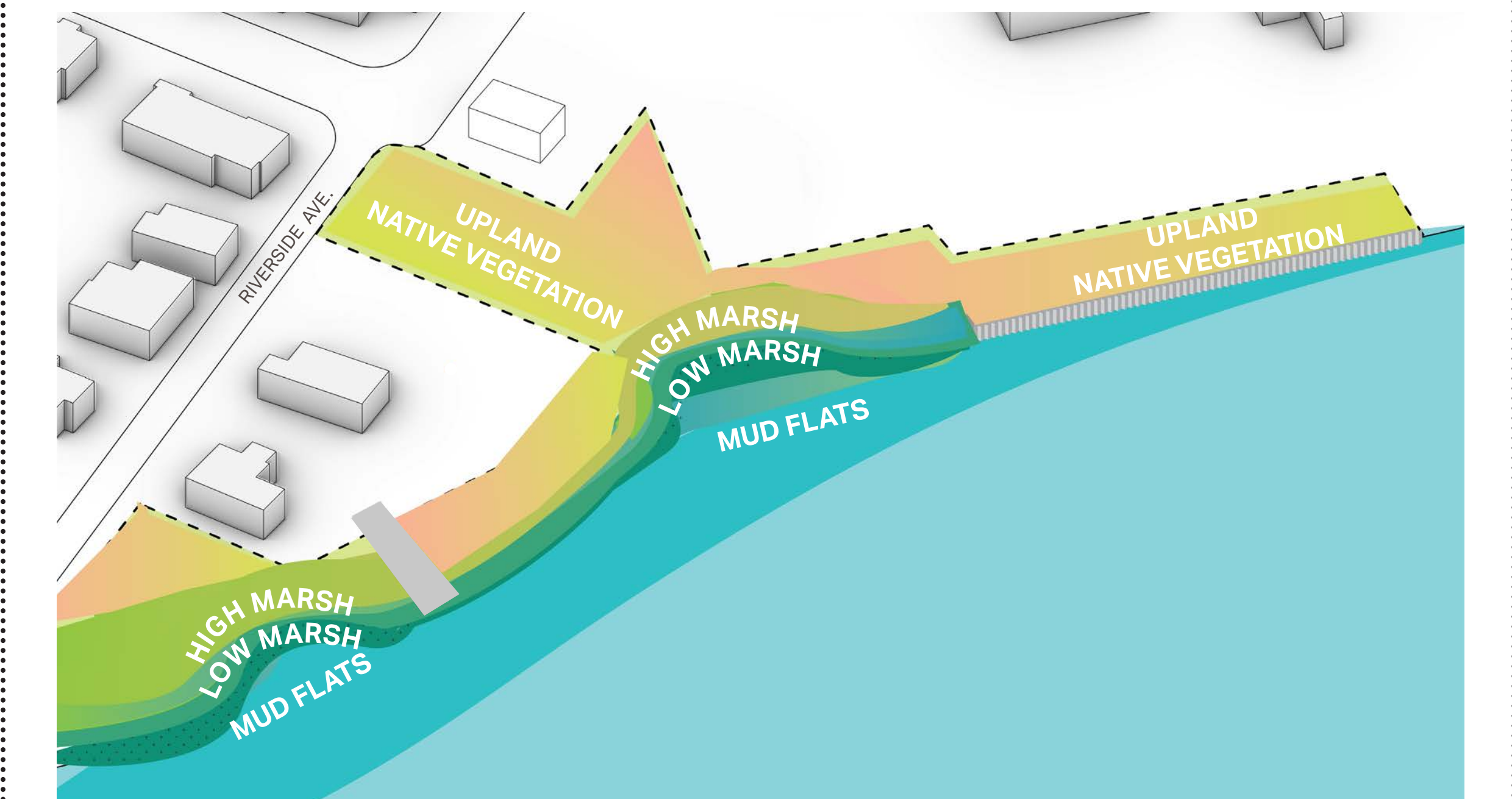
# RIVERFRONT PARK: DESIGN DRIVERS

## VISION + COMMUNITY INPUT

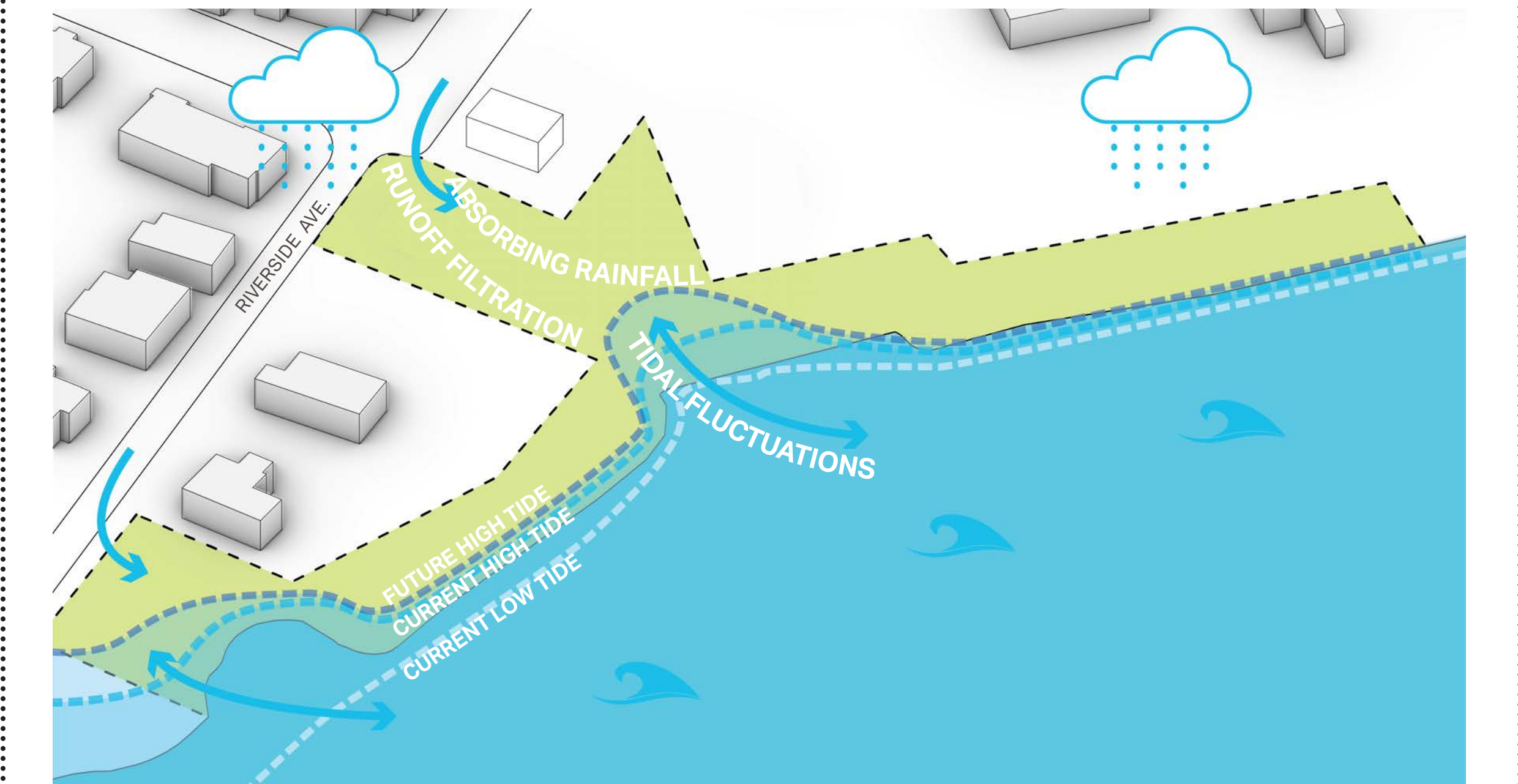
### SITE PERFORMANCE



WATERFRONT ACCESS

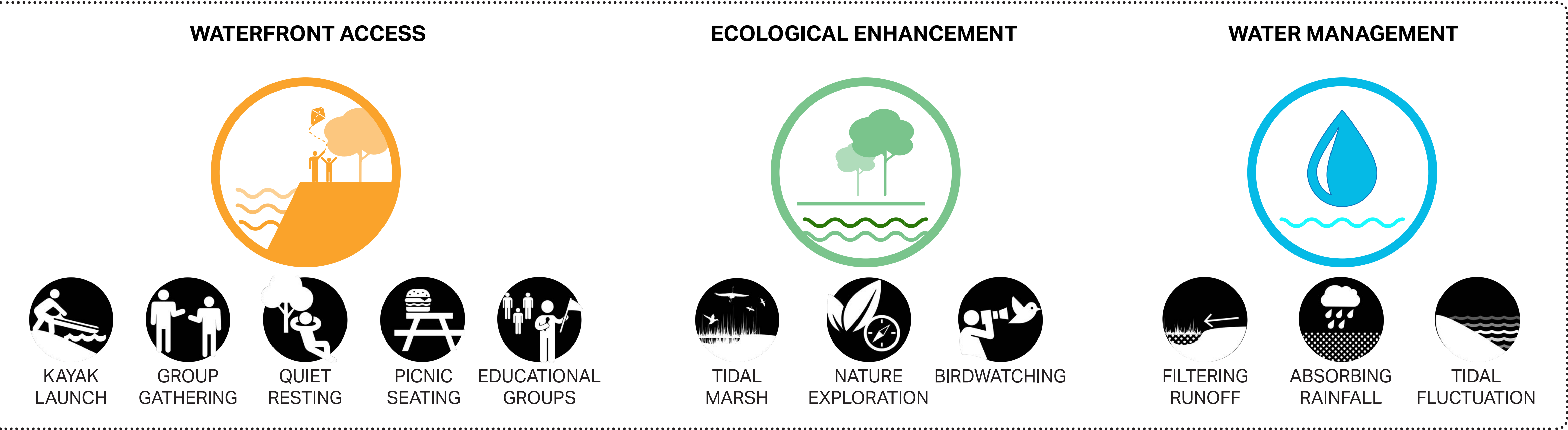


ECOLOGICAL ENHANCEMENT

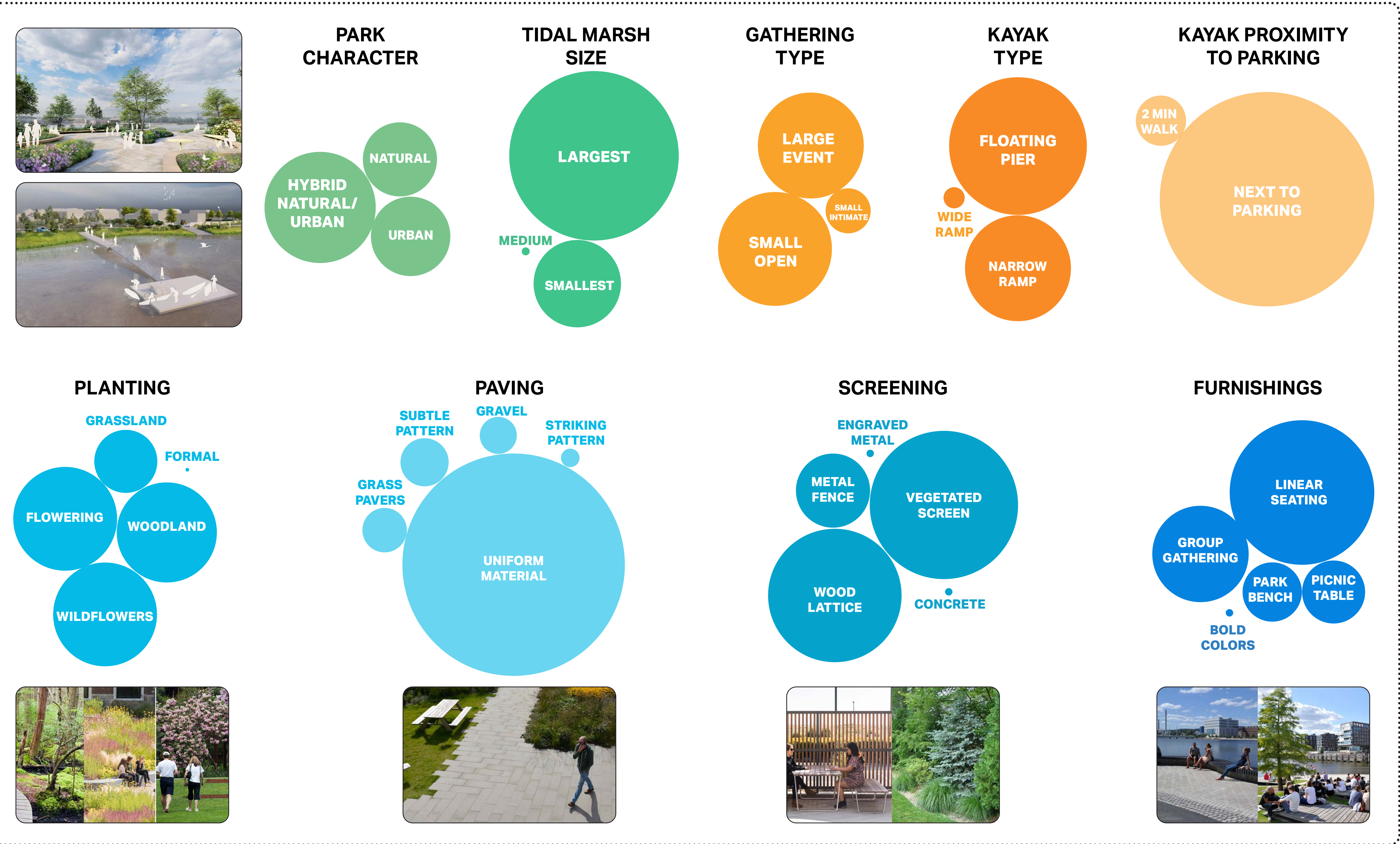


WATER MANAGEMENT

### DESIGN STRATEGY



### COMMUNITY INPUT





RIVERFRONT PARK  
CONCEPTUAL DESIGN



FLEXIBLE SMALL GATHERING  
IN LUSH PLANTING



FLEXIBLE GROUP GATHERING



TIDAL MARSH ENHANCEMENT  
WITH FLOATING KAYAK LAUNCH