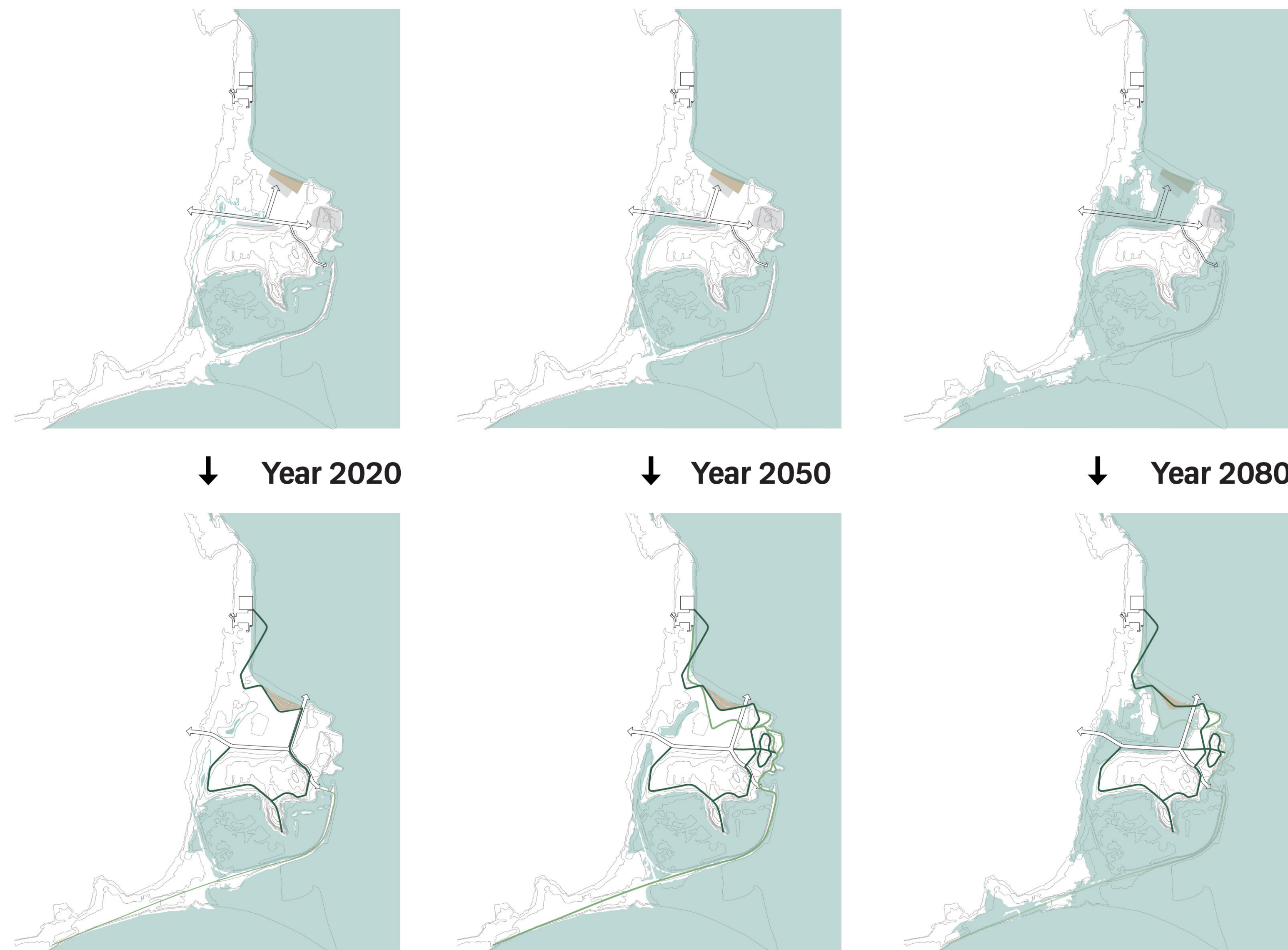
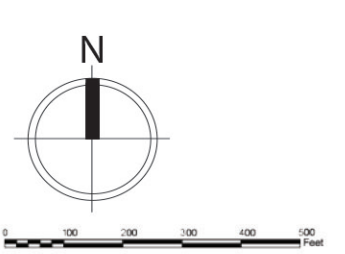


WEAVING THE WATER FRONT

SEA-LEVEL RISE CHALLENGE

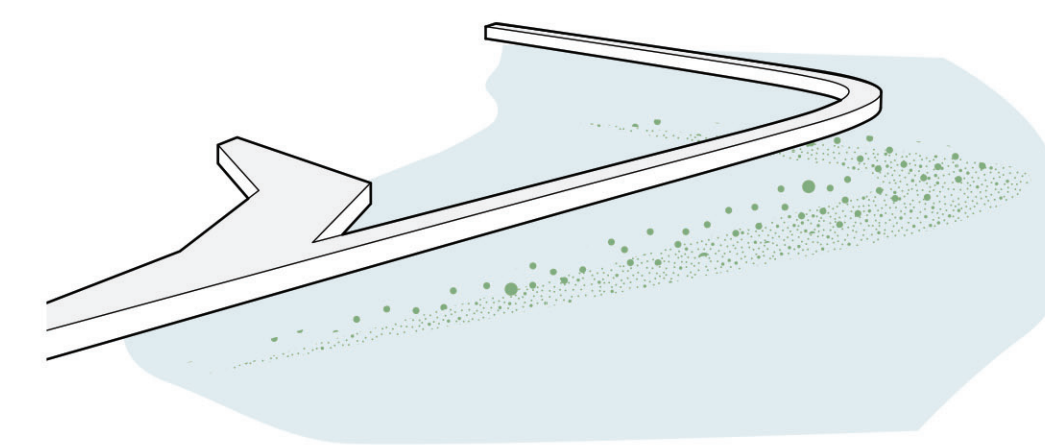


- Cut and fill to avoid the main road inundation
- Move the main road to higher elevation
- A new elevated waterfront route
- New pedestrian path
- Extended elevated waterfront route
- Exten pedestrian path through out the whole waterfront
- Elevated waterfront route remains accessibility



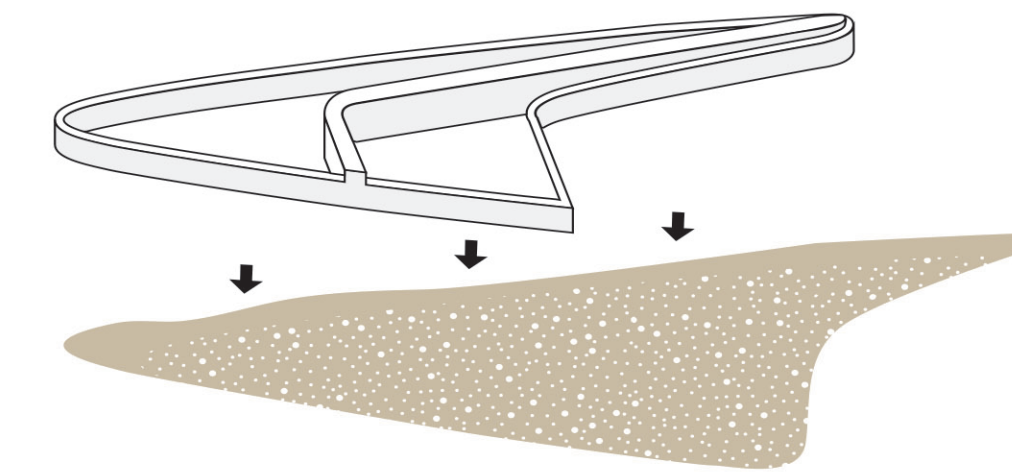


ADAPT



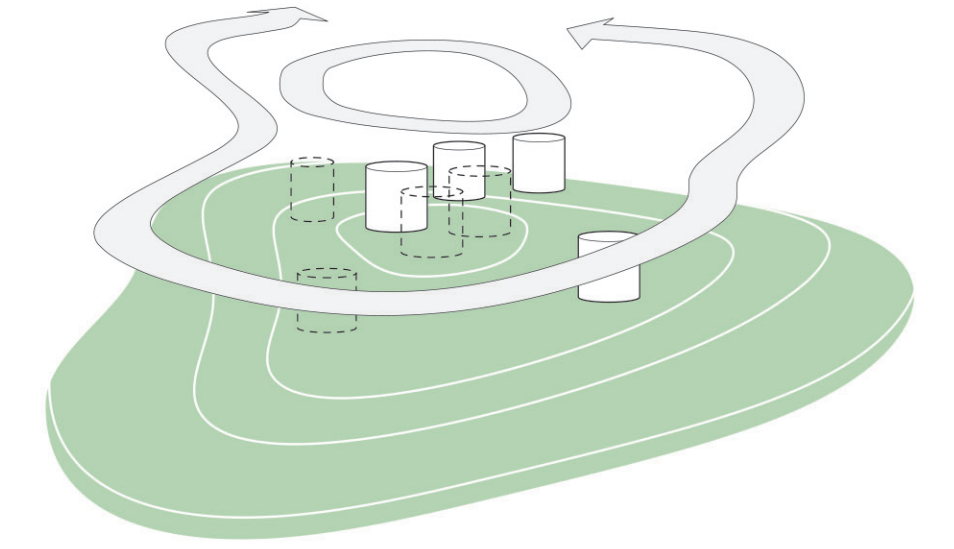
- Bridge that connects smorgasburg to the rest of the waterfront area while resist flooding and sea level rise
- Living Shoreline that underneath the bridge to resist the bank erosion while protect intertidal habitat

REINFORCE



- A concrete frame to protect the artificial sand beach from daily tidal erosion and future sea level rise. The frame is made into linear seating edges.

RETURN



- Relocate the existing oil plant area
- Return the waterfront park back to Kingston Point area



PHASE 1: "SEEDING"



PHASE 2: INFRASTRUCTURE



PHASE 3: PROGRAMMING



PHASE 4: ADAPTATION

Stabilization of the shoreline with structures such as **stone reefs, coir fiber logs** and **wetlands plants** and **submerged aquatic vegetations**

Adding **waterfront wooden decks** and **elevated overlook bridge**

Promote the **Smorgasburg** area as a **outdoor activity zone** with new fishing areas, market places

Remain accessibility up to **5ft sea level rise (Year 2100)**

Improve **water quality** via filtration of upland run-off while create habitat zone

Protect surrounding riparian and intertidal environment

Put 3 walls with different height to divide the sand beach into 3 parts

Move the **automobile road** and **parking area** to higher land on the east side

Connect the middle wall to surrounding elevated roads to provide **accessibility** for future

Add sand beach dependent activities to different beach zones, eg: beach volleyball

Preserve most part of the beach area until **2.5 ft sea level rise 2080**

The highest wall in the middle will become a path when surrounding area inundated

Relocate the oil plant to industrial waterfront

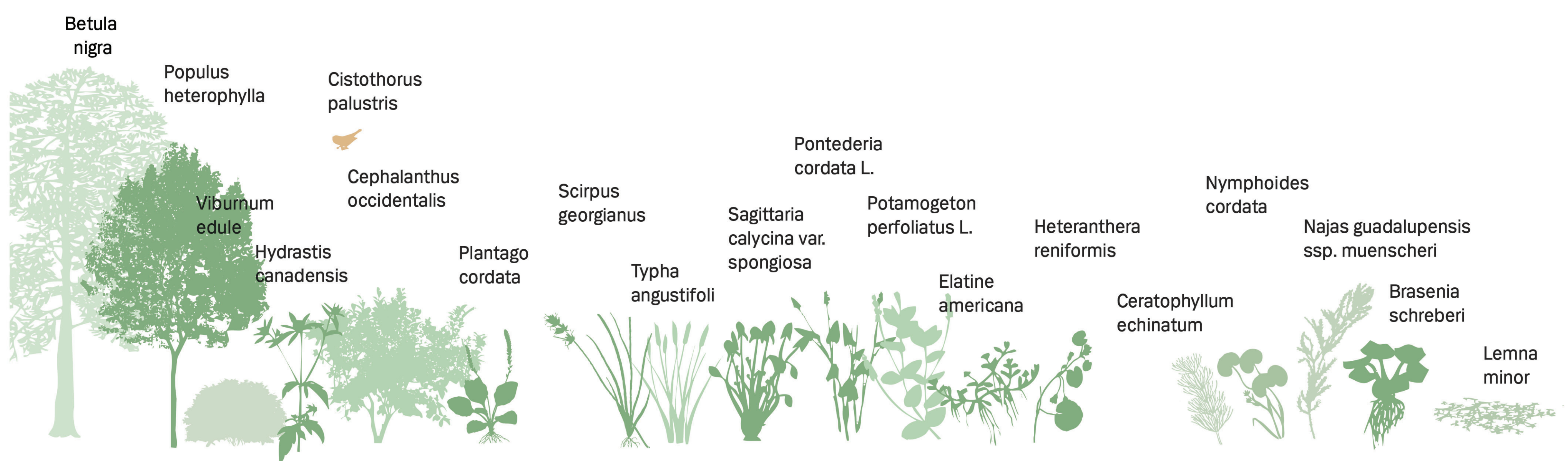
Post-industrial zone clean up

Transform the area into a **post-industrial park** with trails, pedestrain roads and vegetation

Add **kayak launch places** and **small waterfront plaza**

Connected with the rest of Kingston Point area

A accessible area that resist threaten of **sea level rise** due to its high topography



Betula nigra

Populus heterophylla

Cistothorus palustris

Viburnum edule

Cephalanthus occidentalis

Hydrastis canadensis

Plantago cordata

Scirpus georgianus

Typha angustifoli

Sagittaria calycina var. spongiosa

Pontederia cordata L.

Elatine americana

Potamogeton perfoliatus L.

Heteranthera reniformis

Ceratophyllum echinatum

Nymphoides cordata

Najas guadalupensis ssp. muenscheri

Brasenia schreberi

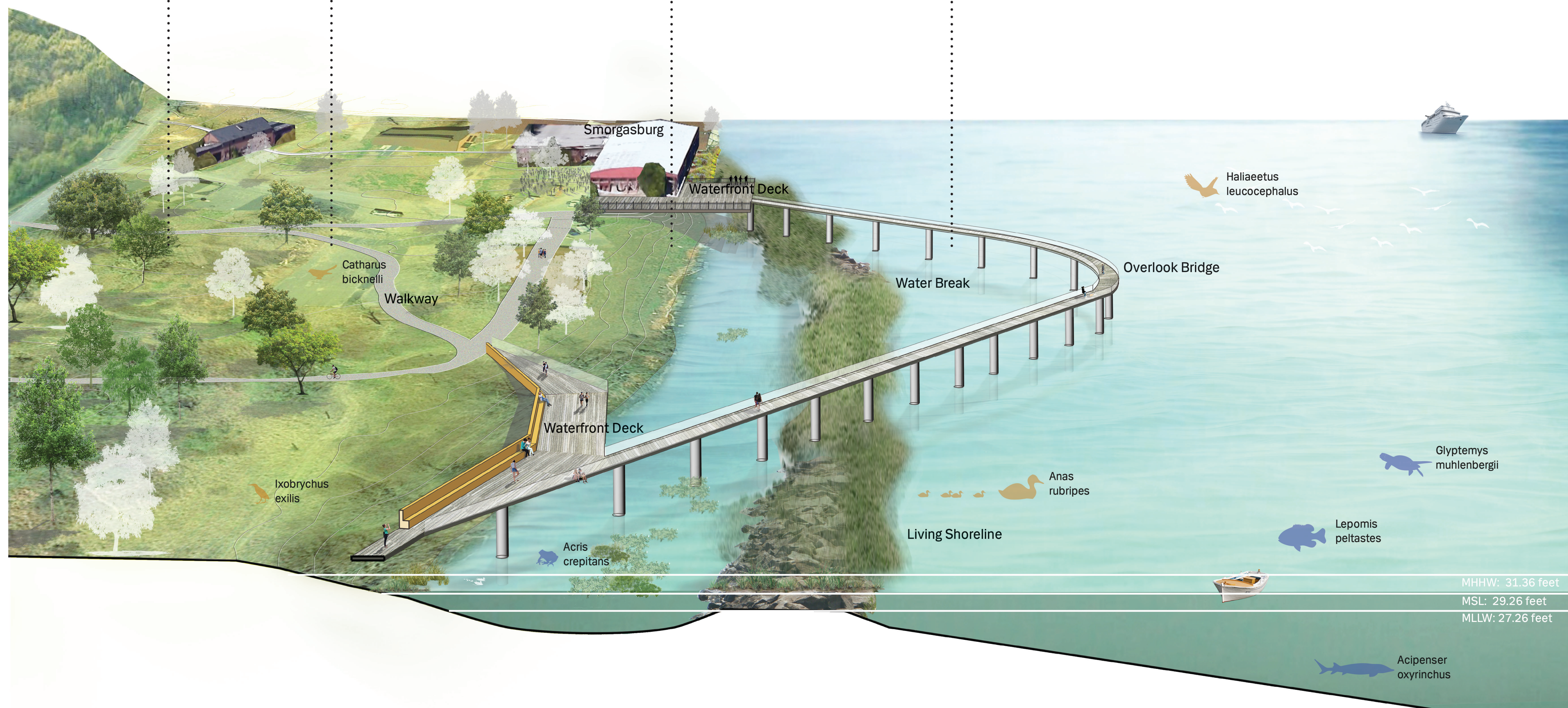
Lemna minor

Dry Forest

Upper Intertidal Mix

Lower Intertidal Mix

Submerged Aquatic Vegetation



Smorgasburg

Waterfront Deck

Catharus bicknelli
Walkway

Waterfront Deck

Water Break

Overlook Bridge

Haliaeetus leucocephalus

Ixobrychus exilis

Acris crepitans

Anas rubripes

Glyptemys muhlenbergii

Living Shoreline

Lepomis peltastes

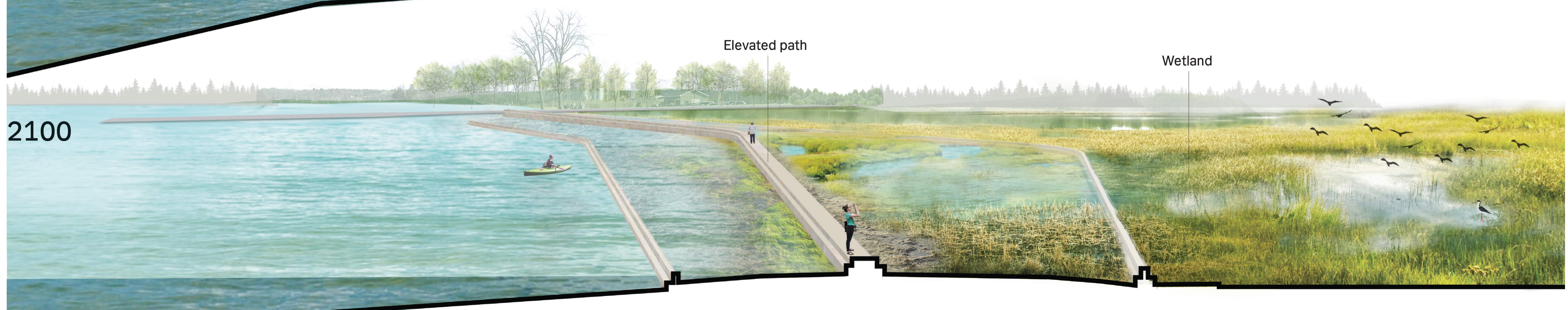
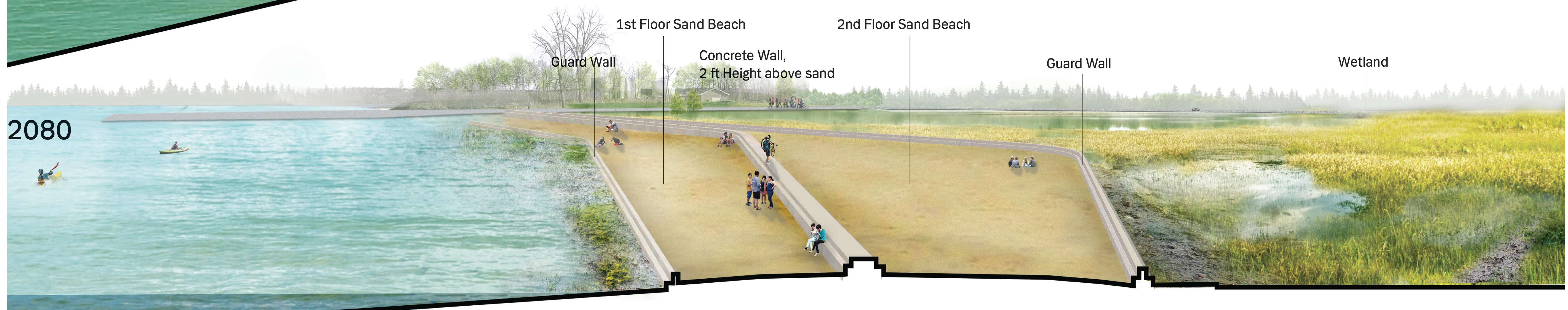
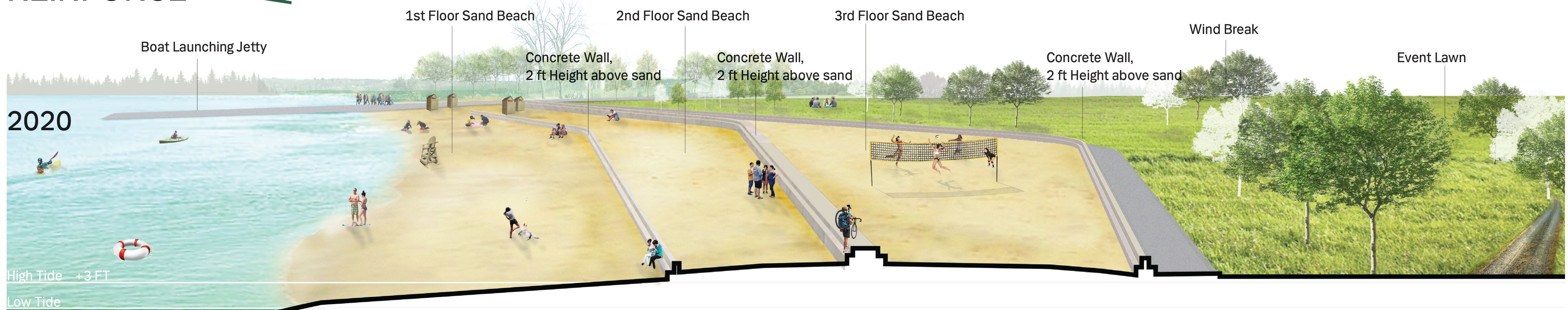
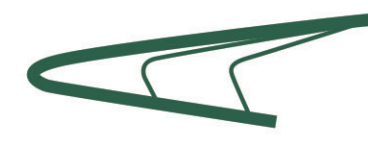
MHHW: 31.36 feet

MSL: 29.26 feet

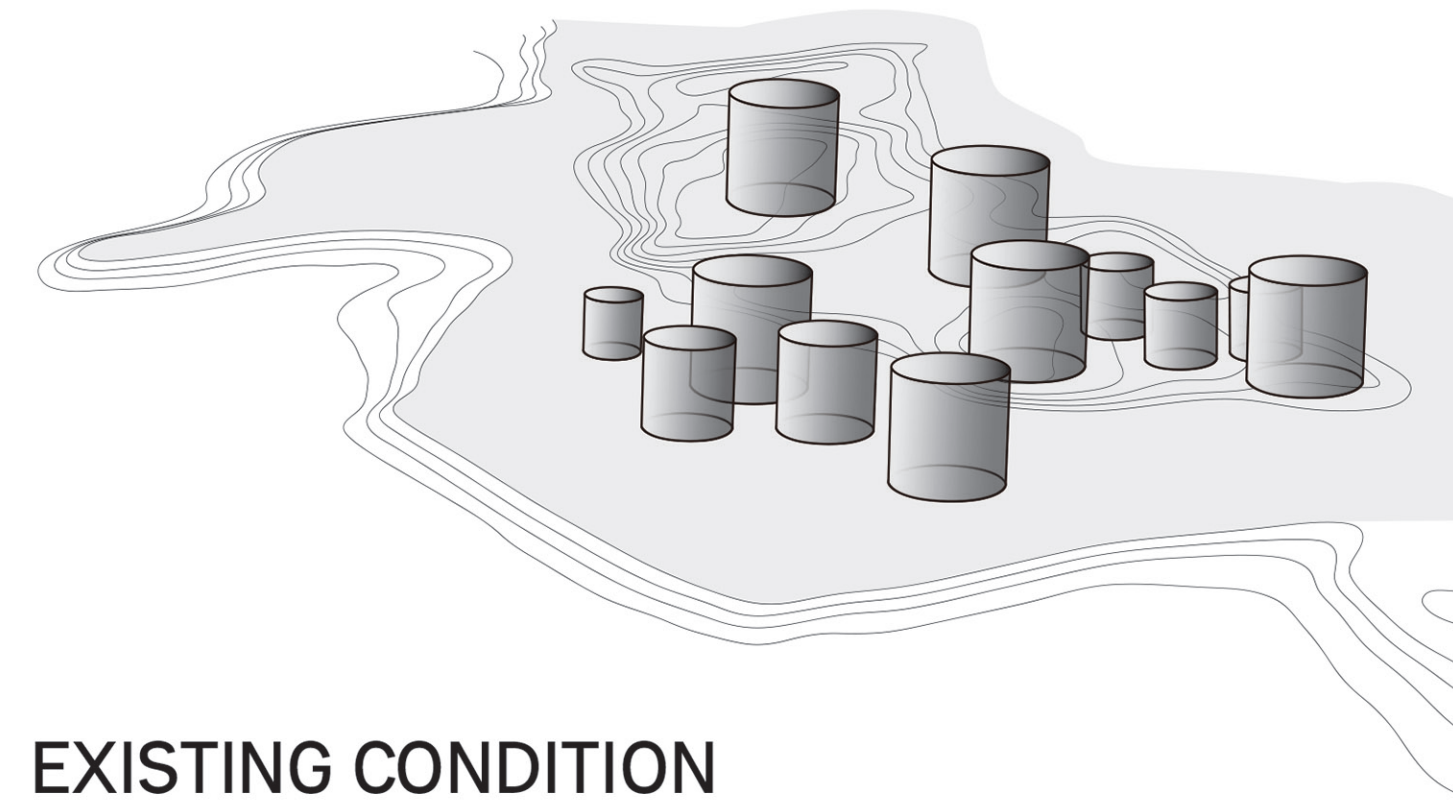
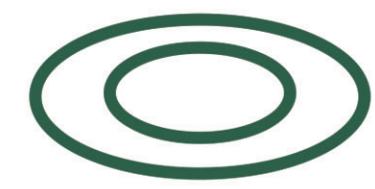
MLLW: 27.26 feet

Acipenser oxyrinchus

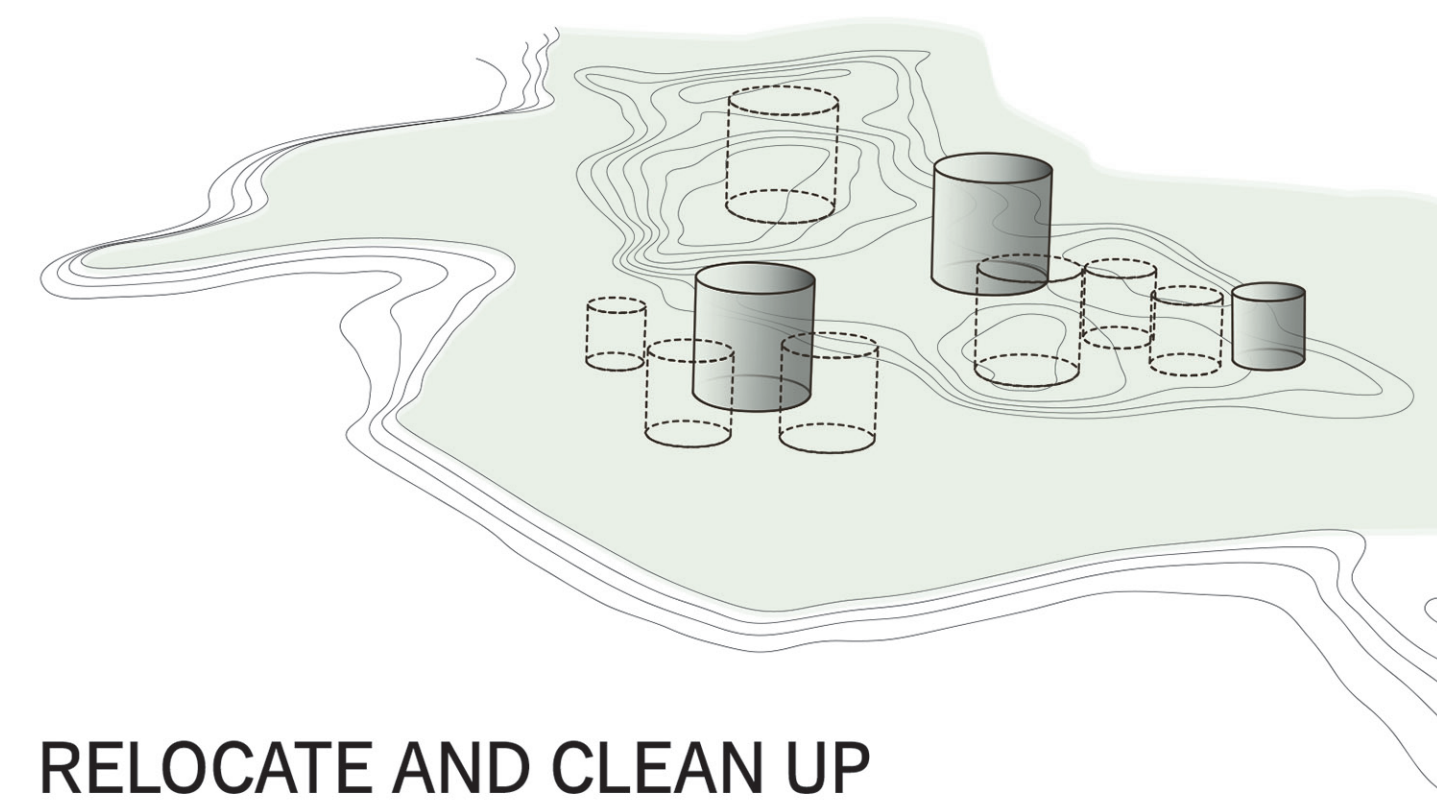
REINFORCE



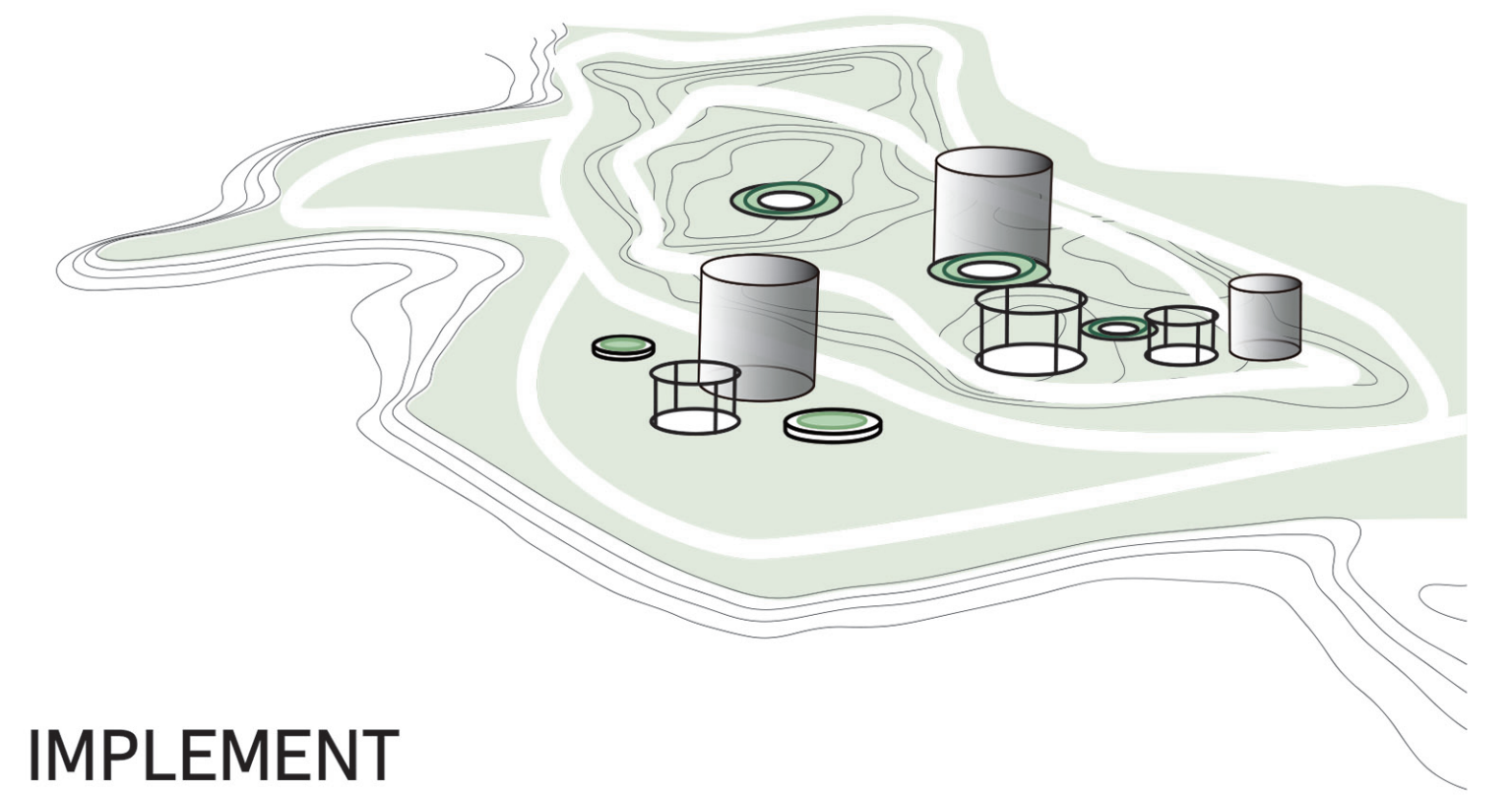
RETURN



EXISTING CONDITION



RELOCATE AND CLEAN UP



IMPLEMENT



Kingston Point Park 1903

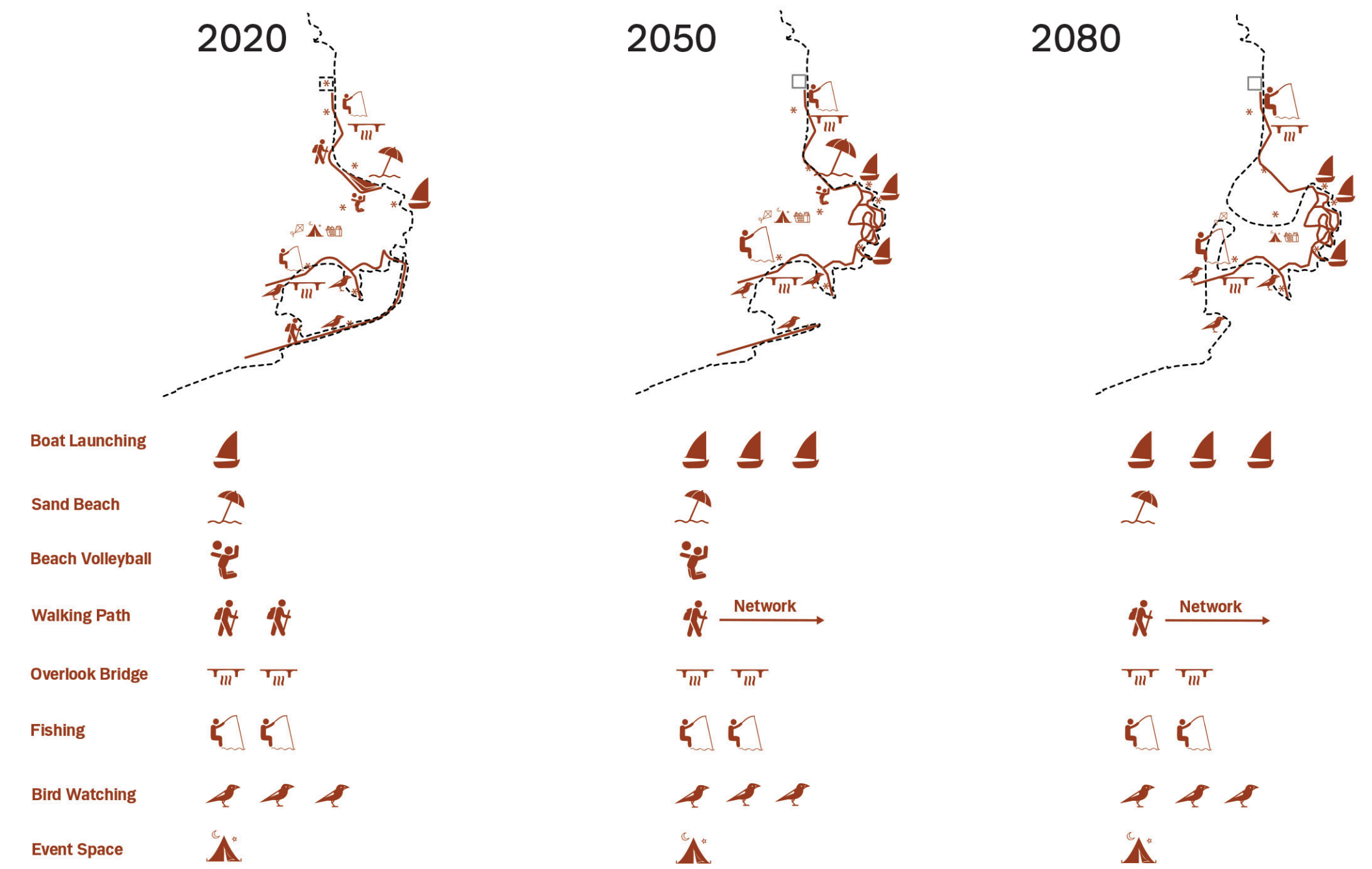


Kingston Point Oil Plant 2017

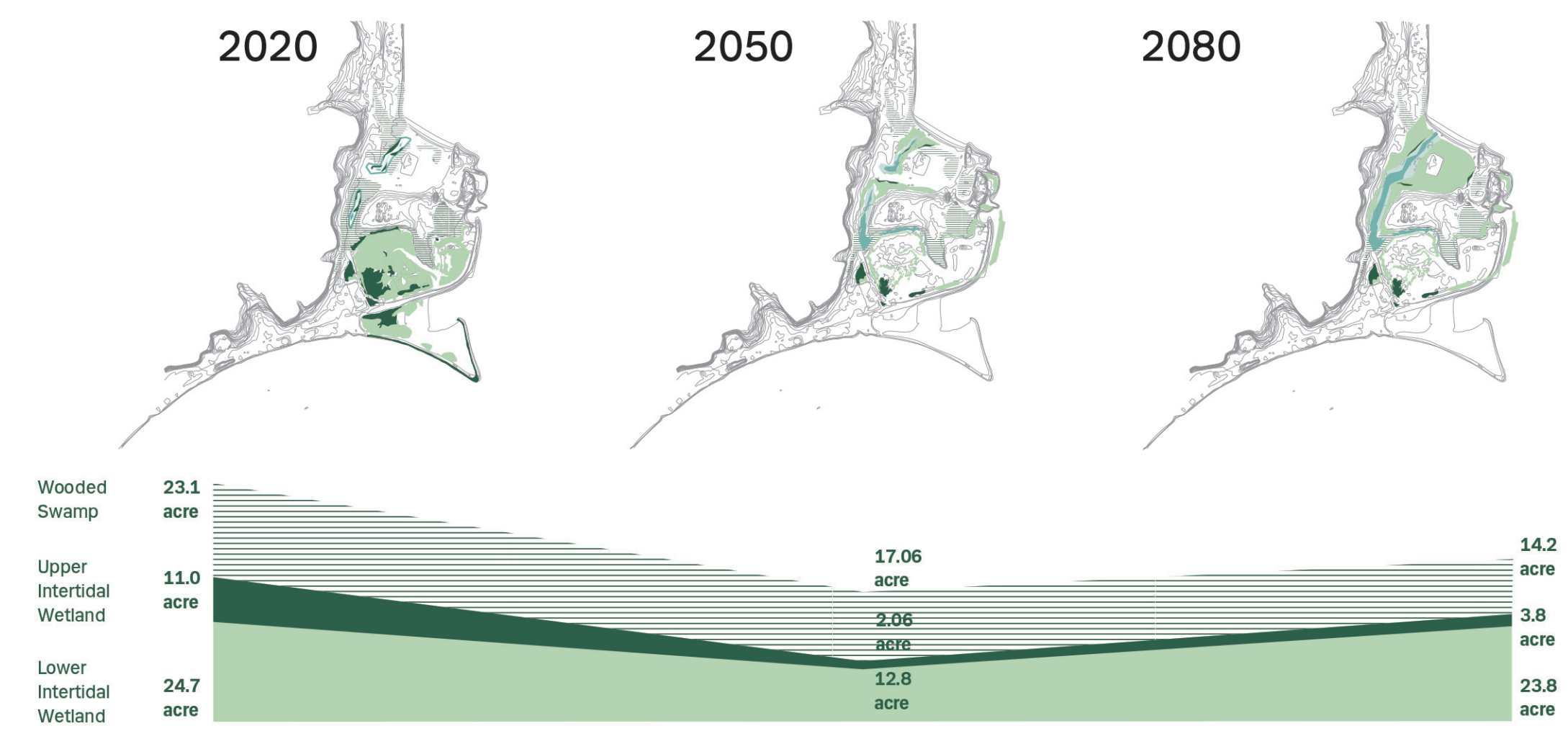
On the high land area currently possessed by oil storage tanks, people can look around the Hudson River imaging the place's prosperity and vitality date back to Victorian ages. By removing the oil tanks and transforming the site into a cultural park, we return the water front area to public and weave nature and culture together.



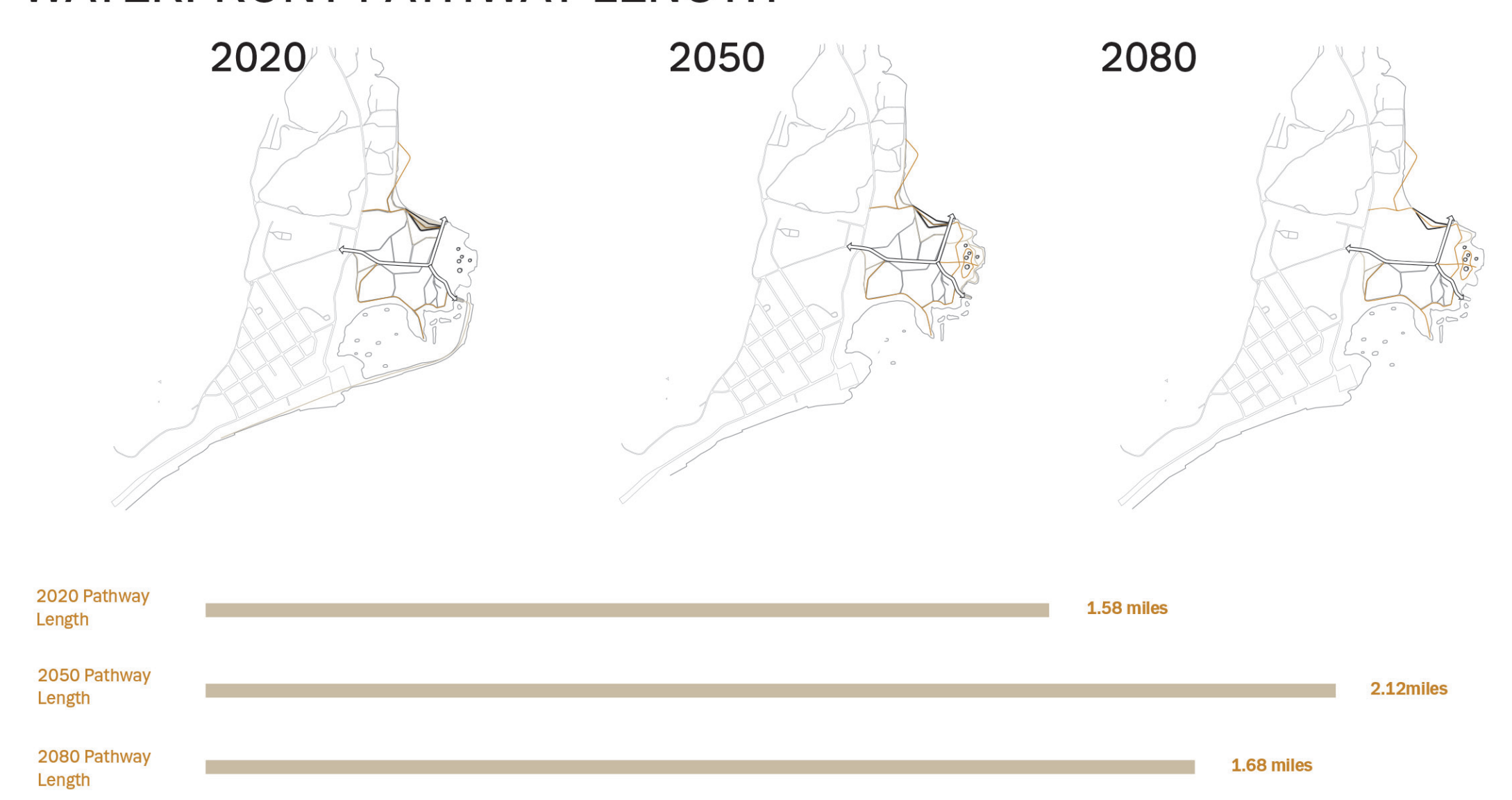
WATER-DEPENDENT ACTIVITIES



WETLAND TYPES



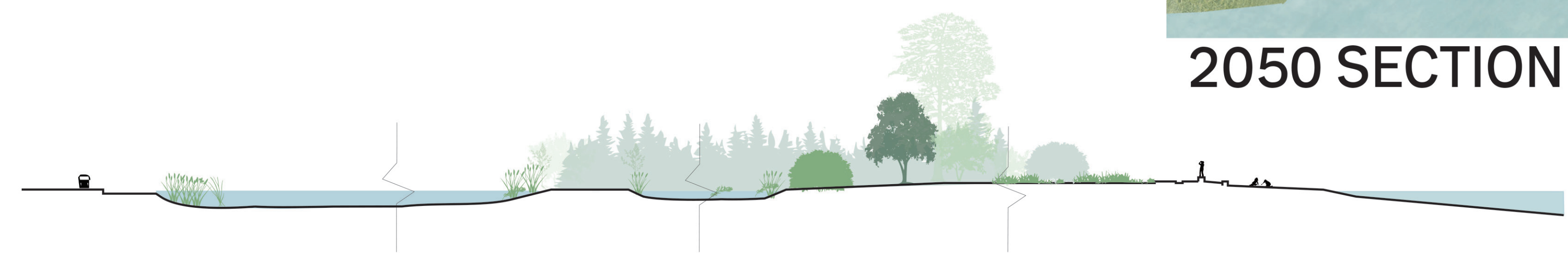
WATERFRONT PATHWAY LENGTH



2050 SITE PLAN



2050 SECTION



2080 SITE PLAN



2080 SECTION

