

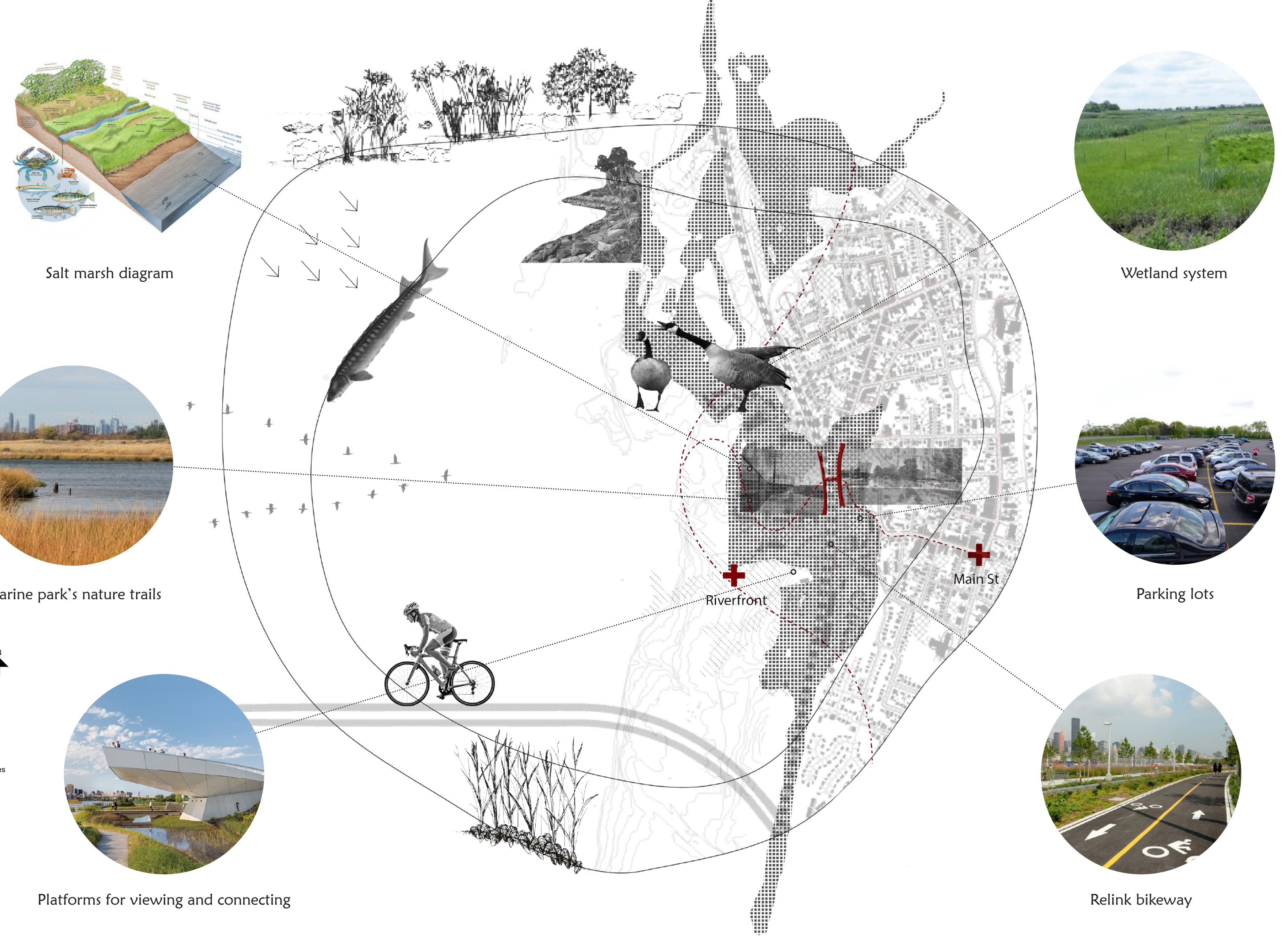
“ Adaptation in Tarrytown ”

Let the Hudson river come in | Xiaoyun Ren LA 7010 Tarrytown CaD

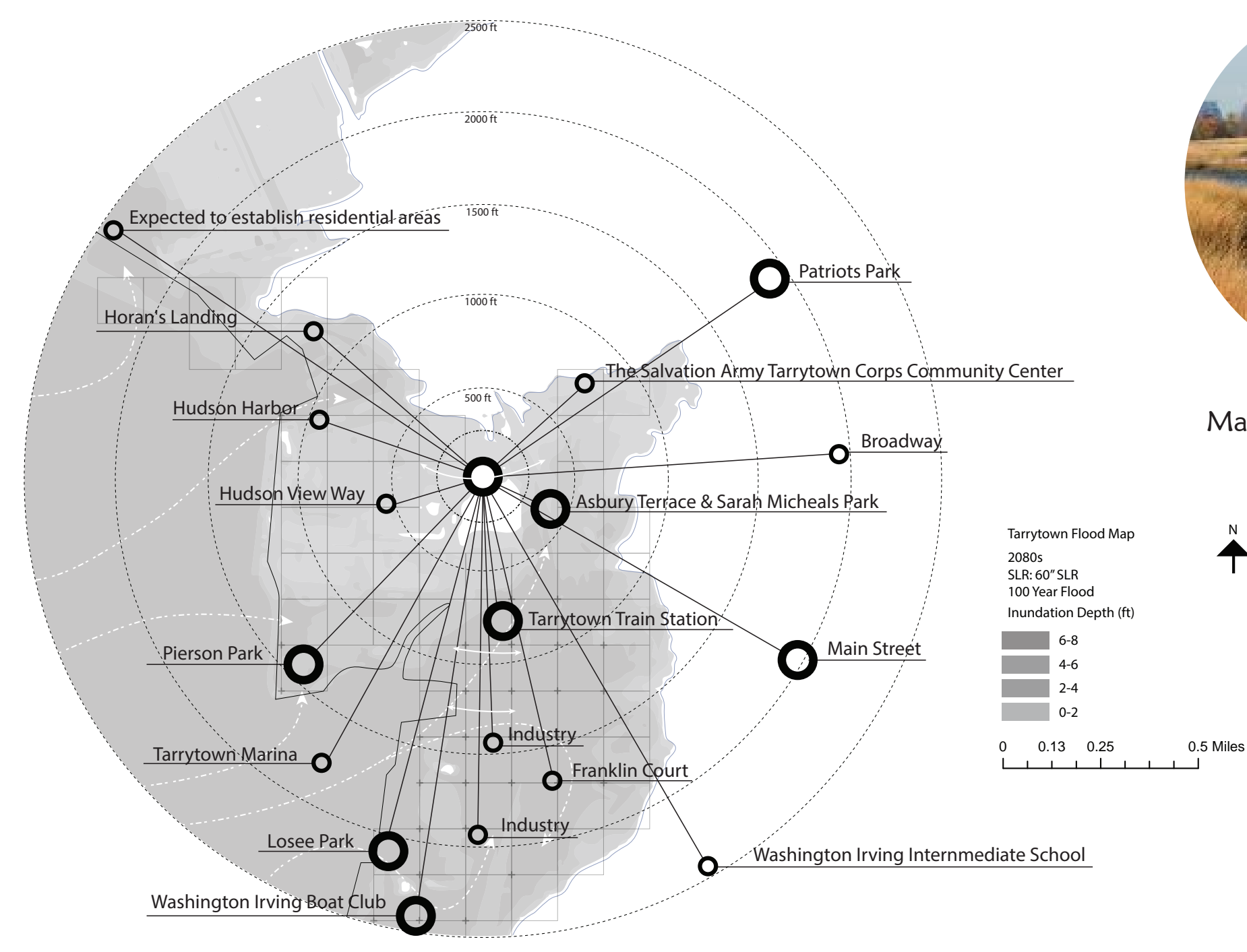
Proposal

Rising sea levels and flooding caused by global warming are flooding Tarry town's riverfront space. How to balance the relationship between the Hudson river and Tarrytown became the main task of this studio. I got rid of my restricted thinking in making site synthesis and craft drawings. I listed the problems with the site visit from the aerial view. Flooding issues, impending flooded train lines, lack of connection between the riverfront and Main Street, traffic problems on the H Bridge, dangerous species in the Hudson River, unconnected bike paths, and lack of waterfront amenities are all outlined in the drawings. I created a new idea of transformation for Tarry town through a field trip combined with my understanding of the site. Analyzing the drawings gives me a more specific knowledge and grasp of the site. The Tarrytown transformation project presents many opportunities and challenges as a site that brings together many complex issues. The train route is the most severe difficulty of the whole design. I think Tarrytown will have to give up trains in the future. I suggest opening a Ferry center. The ferry is used to connect Tarrytown and NYC city again.

Ideas



What is Tarrytown facing in the future?



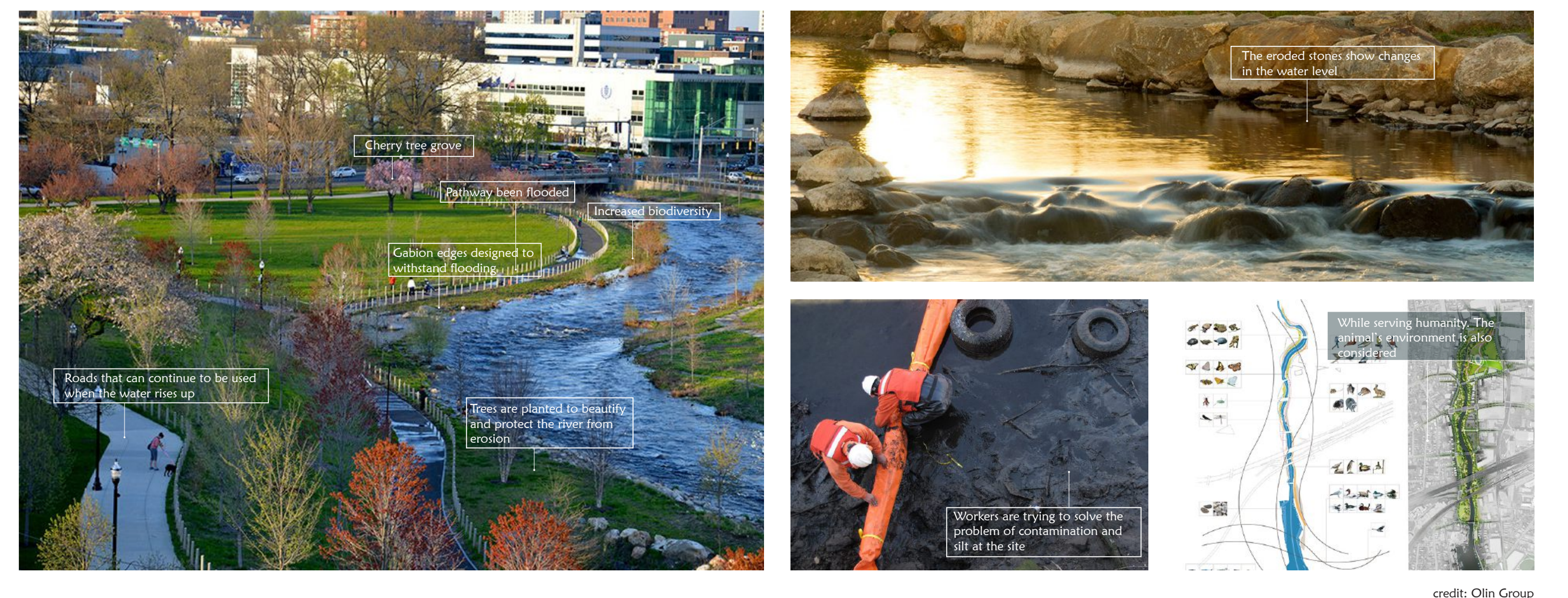
According to the 60" sea level rising and 100 year flood in 2080, almost 80% of the tarrytown will be inundated.

Precedent Study - Hunter's Point South Waterfront Park



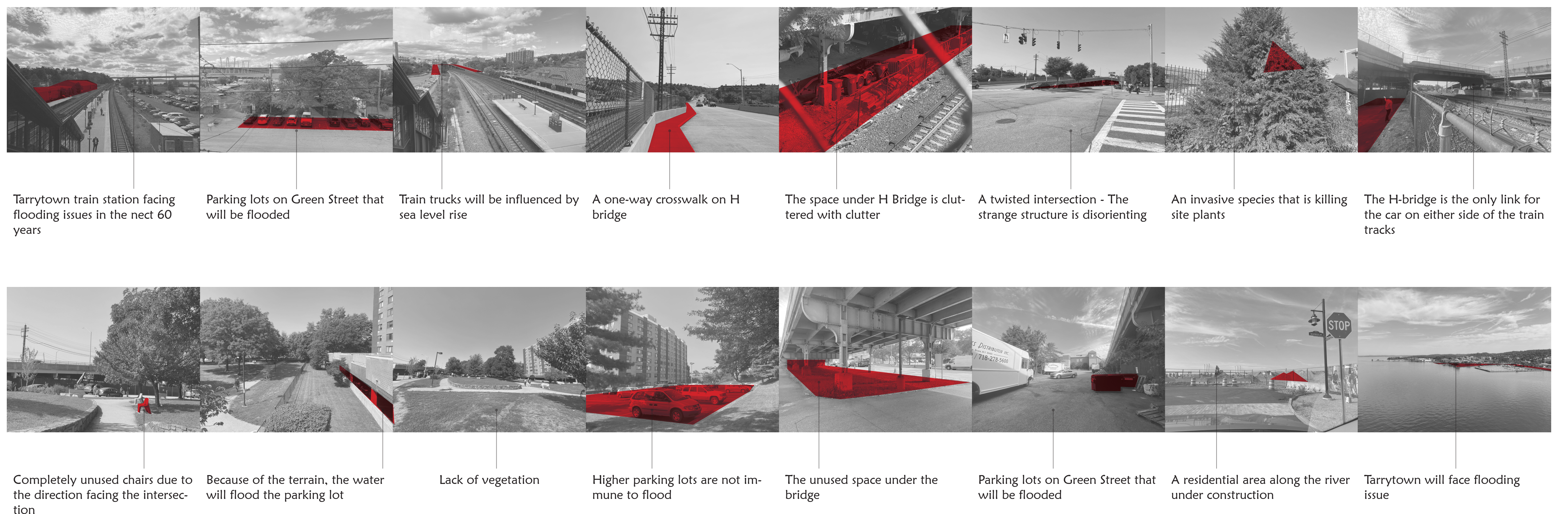
credit: SWA Group

Precedent Study - Mill River Park and Greenway



credit: Olin Group

Challenges and Opportunities



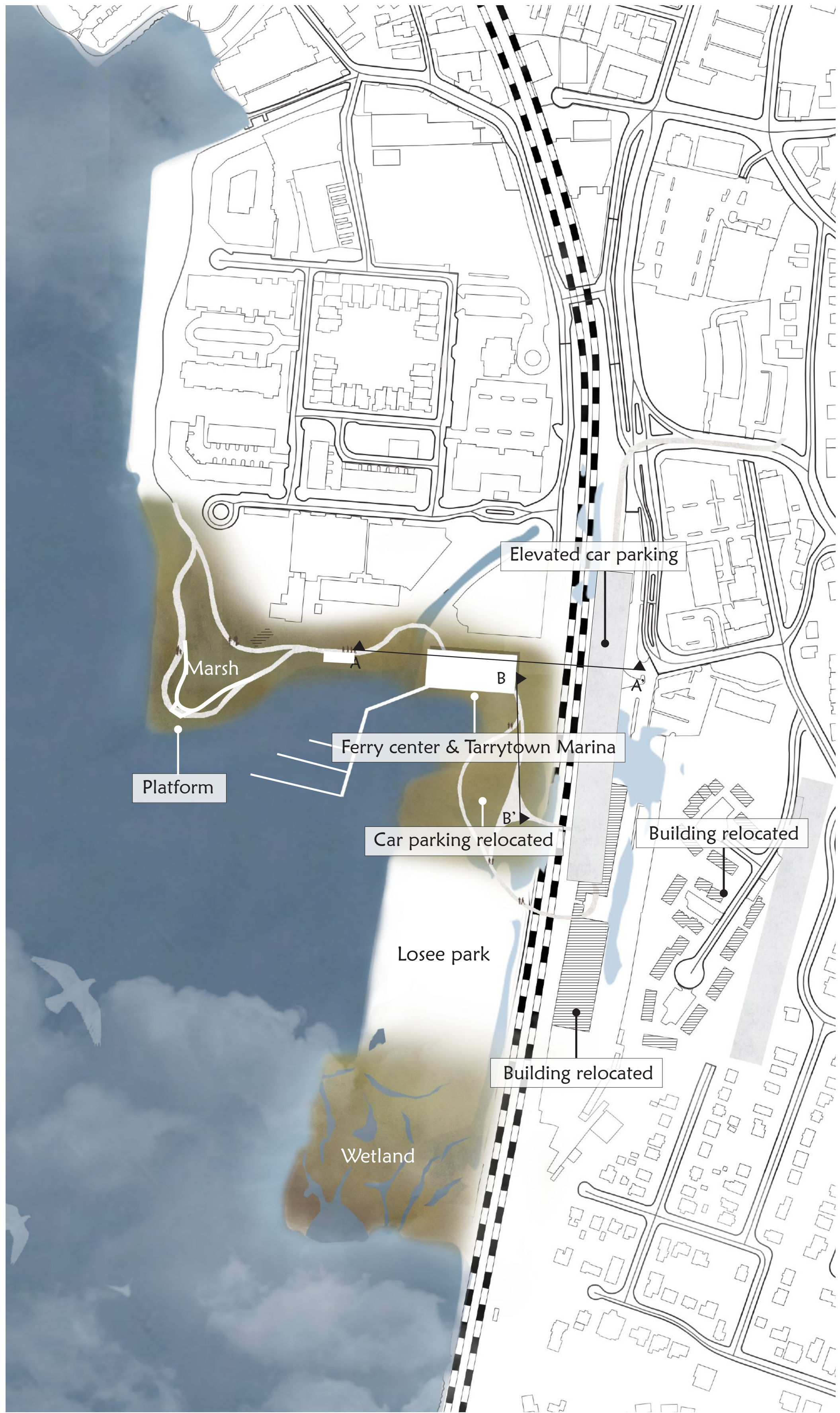
Goals to achieve

- Alleviate flooding issue
- Reduce the traffic pressure on H Bridge
- Redefining Sarah Michaels Park
- Relink water front and Main Street
- Provide more activities spaces for Tarrytown



Phase I_2022

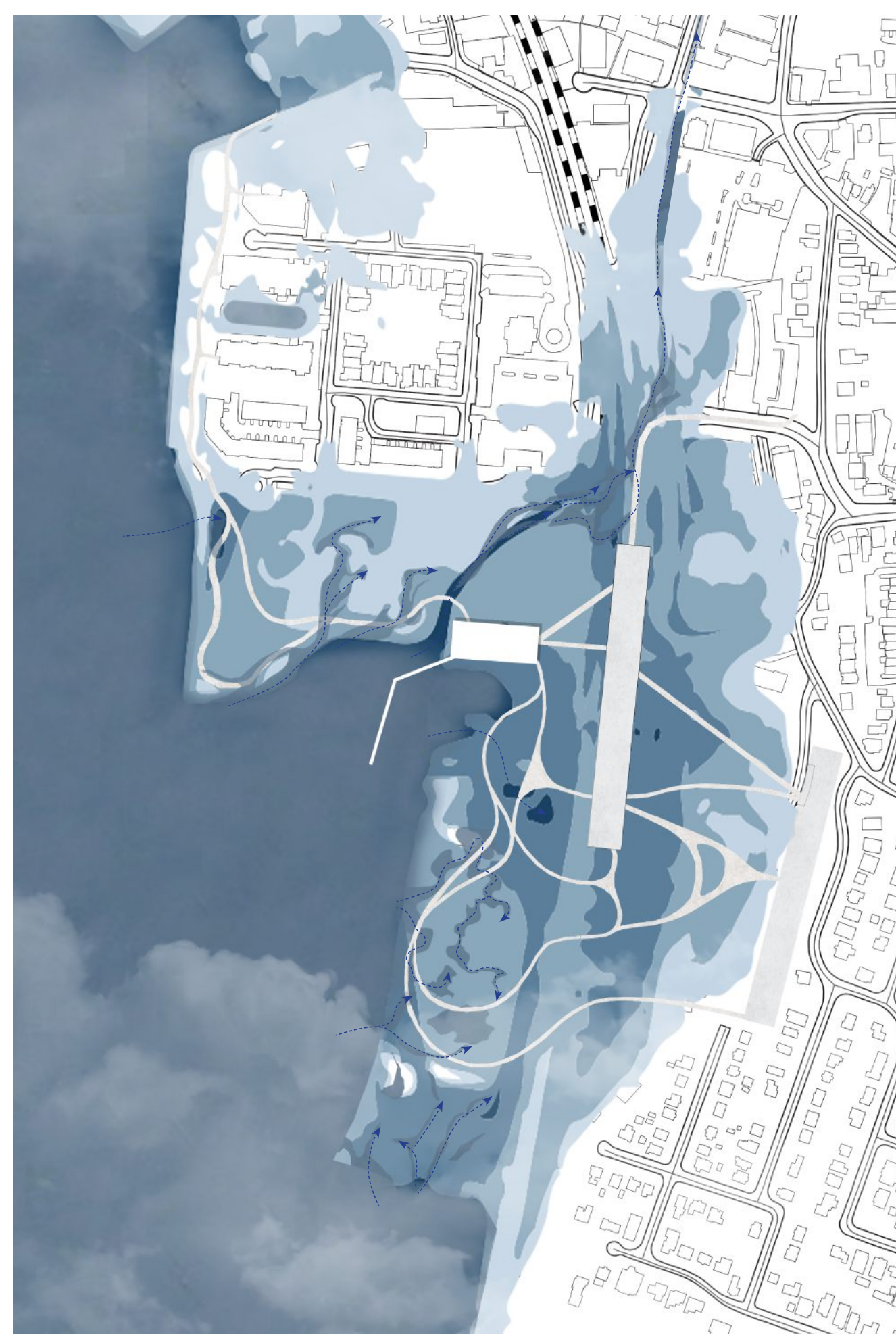
The site is scheduled to be returned to the ecology due to the impending flooding rapidly washing away the Washington Irving Boat Club. As an ecological wetland park, there will be more emphasis on multi-species environmental development. Creating space for endangered animals and plants to thrive. Provide resting places for migration birds.



Phase II_2040

The river will be allowed to enter Tarry Town during the second construction period. At the same time, Marsh will be planted in order to protect the shoreline ecosystem. Reduce and mitigate further invasion of Tarry Town by the Hudson River. The elevated parking lot provides a landing point for visitors to enter Eco Park. Due to the flooding issues, the train will be discontinued. And Tarrytown's connection to New York will be officially converted into a ferry center.

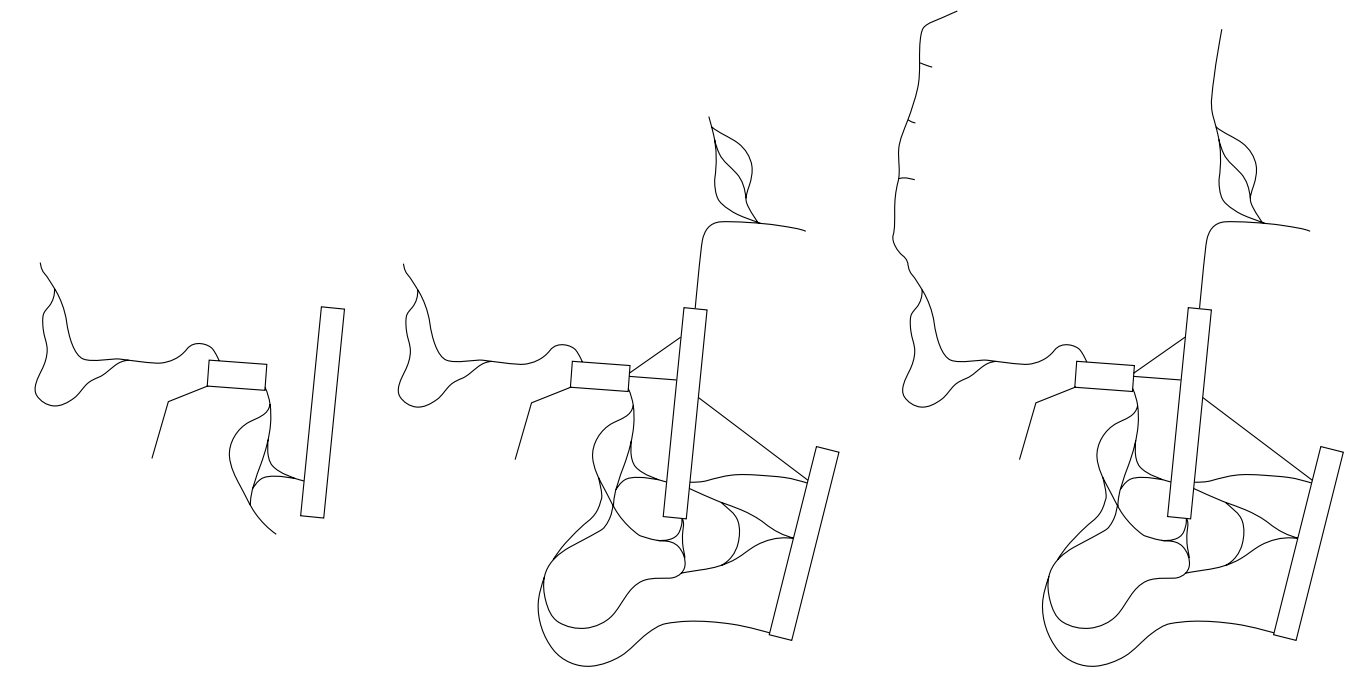




The marsh park will be further spread to protect Tarrytown's ecological and residential areas. The design aims to preserve the waterfront of Tarrytown in the face of impending flooding. It also seeks to restore the ecosystem of Tarrytown and create a living space for more non-human creators.

In the project's third phase, Sarah Michaels Park will be transformed into a Bio-swale to alleviate the spread of the river caused by flooding. A Bikeway system will be created to enhance the cycling environment in Tarrytown. A new rain garden will be built in Hudson Harbord during this period to absorb and reuse the flooded river water. Stopping the Tarrytown train transportation will also solve traffic pressure on the H bridge and the barrier between the waterfront space and Main Street. Ferry Center will be transformed into a transportation hub for Tarrytown. Rest areas and observation decks will be developed and built during this phase. The design will provide visitors with a variety of rest and recreation options.

The future Tarry Town will be transformed into a town of tourism, ecology and culture. Attracting tourists from all over the world



The development of pathway



Ecological greenway

Perspective view of Wetland

