

a studio project example

project title -----> COLLECTIVE RESILIENT HOUSING

your name and teammates -----> Project by: Taryn Wefer and Naomi Patel

school name -----> NJIT

instructors names -----> Instructors: Keith Krumwiede and Martina Decker

blurb consisting of 150-500 words focusing on the sustainable and resilient aspects of your project ----->

This urban proposal for a new Union Beach is a comprehensive strategy of resilient design, from large-scale hydrological strategies that affect the entire coastal area, to small-scale neighbor-oriented water management. By creating a completely new type of living that is both protected from water and in harmony with water, this new Union Beach is identified not only as an environmentally and economically sustainable place to live, but it is also a place a refuge during the inevitable storms that devastate these coastal towns.

This new urban strategy occurs in phases, ultimately consolidating the residents into a berm-protected area surrounded by constructed wetlands.

First, the endangered houses in this coastal region are identified and temporarily relocated. The berm and wetlands must then be constructed.

When building the new residences, the houses nearest the existing community are one to two story and they increase in elevation as they get closer to the coastline. The protected community uses many hydrological strategies to be as autonomous and sustainable as possible. The berm, as the largest scale strategy, protects the community from flooding. The next scale is the storm-water that is collected and reused for grey water, as well as the storm-water runoff being slowly absorbed by plant life in bioswales. Lastly, the wastewater is naturally filtered through the constructed wetlands outside of the berm walls.

This project aims to be sustainable in three ways: economically sustainable by creating an autonomous resilient community; environmentally sustainable by reusing, recycling, and managing water effectively; and socially sustainable by creating micro-communities that are self-sustaining while sharing both spaces and resources.

selection of 1-3 images to explain the project ----->



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