

Site Context

Maryland

Commercial Fishing

The waterside community of Crisfield, MD is the southernmost town in Maryland. Located on the Eastern Shore of the Chesapeake Bay, Crisfield is famous for its seafood. Especially the Maryland blue crab, its Watermen, wildlife, natural beauty, simple lifestyle and strong sense of community built on faith and hard work.

Somerset County

Crisfield, MD

Residential

— Downtown/ Shopping

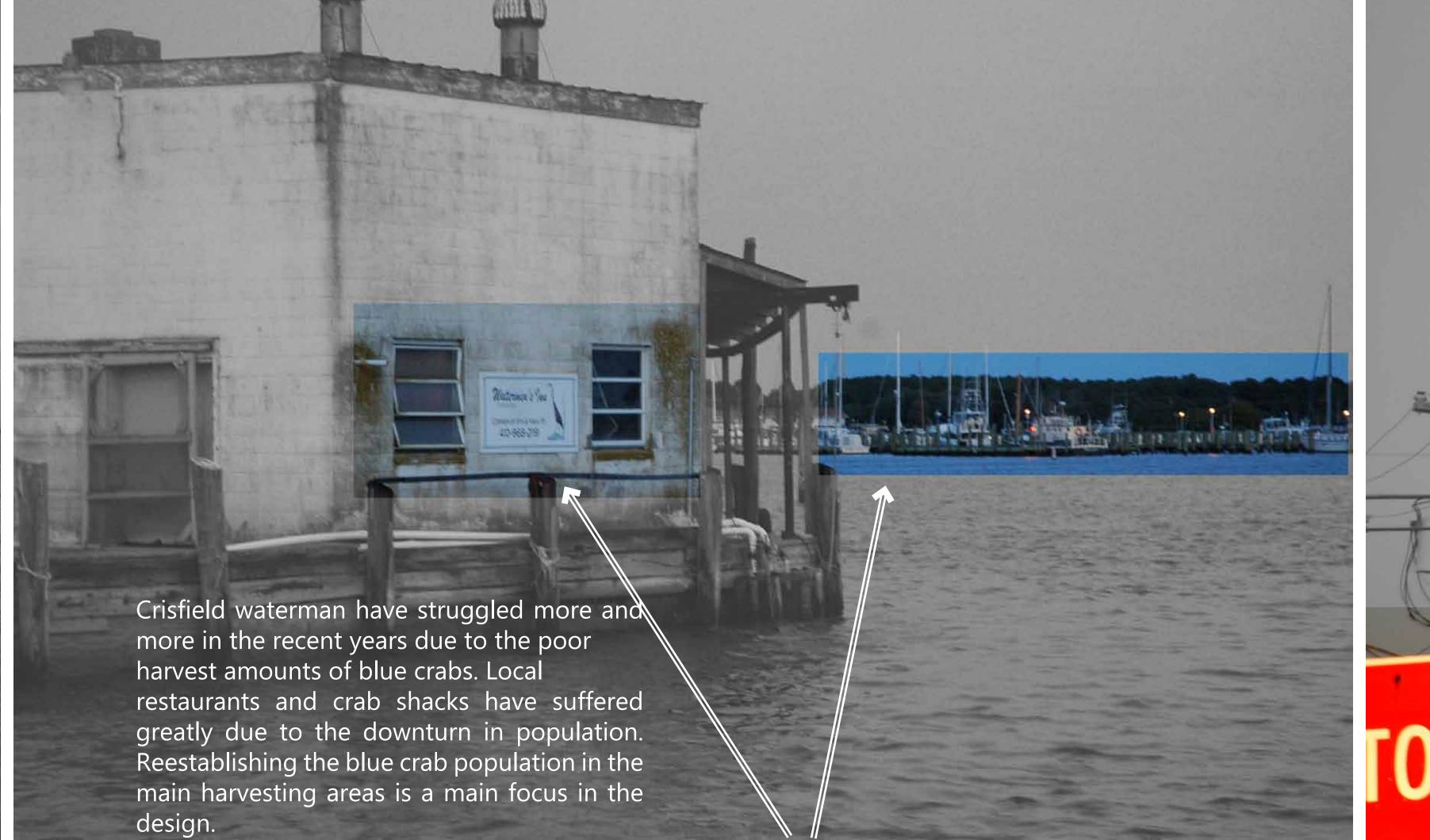
_____ Marine Impliment

"The Crab Capital of the World"















Four large condo units are currently placed along the city's shoreline. One of the most important design elements will be to uniquely and purposely find the most effective use of the condos.



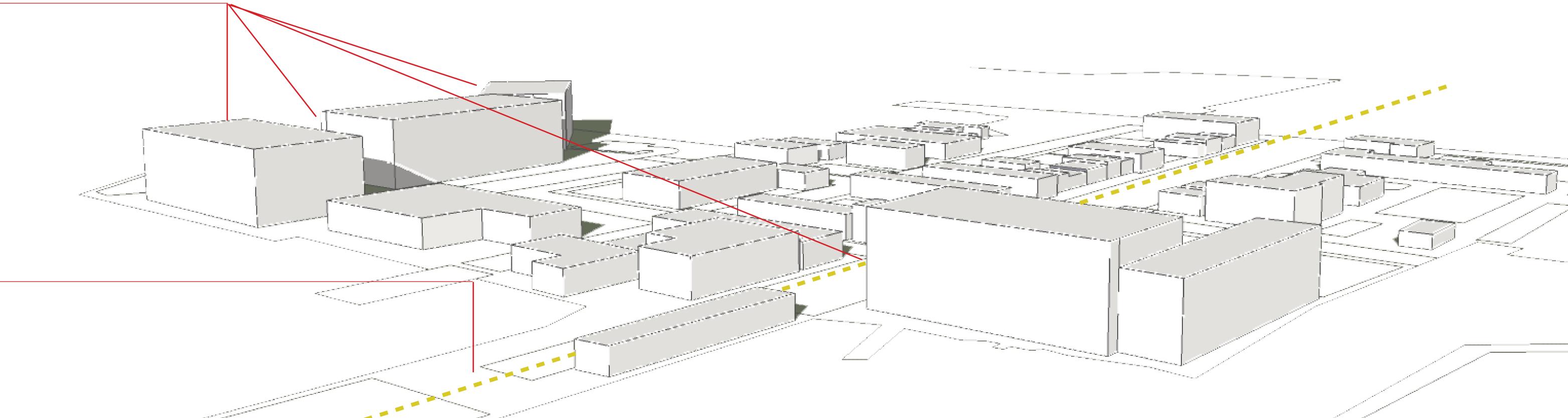
Bringing visitors to the site by using unique connections and utilizing Route 413 into town will be one of the main focuses and keys to a successful



The connection between the city, the water, and the surrounding ecosystem and how they all play an integral part in the city's future will be the most important key to success in this design.









Key Issue:

Runoff from both the city and agriculture need to be addressed and an education component will be strongly emphasized in the design.

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Locating the focal point of the design will be to best serve both visitors to the site as well as local residents. The placement key design will be located near the current overlook dock area.

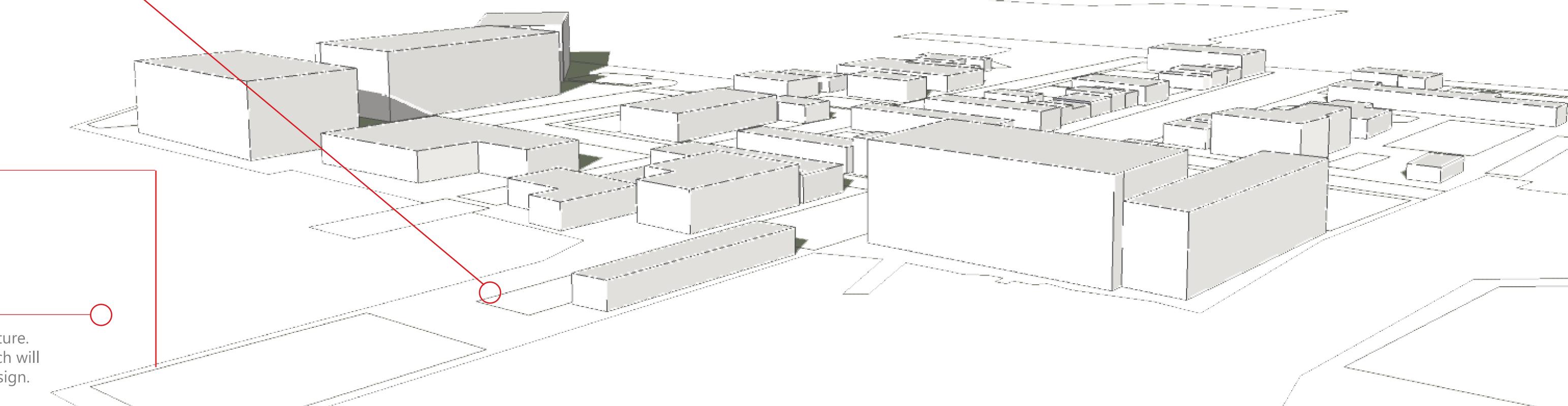


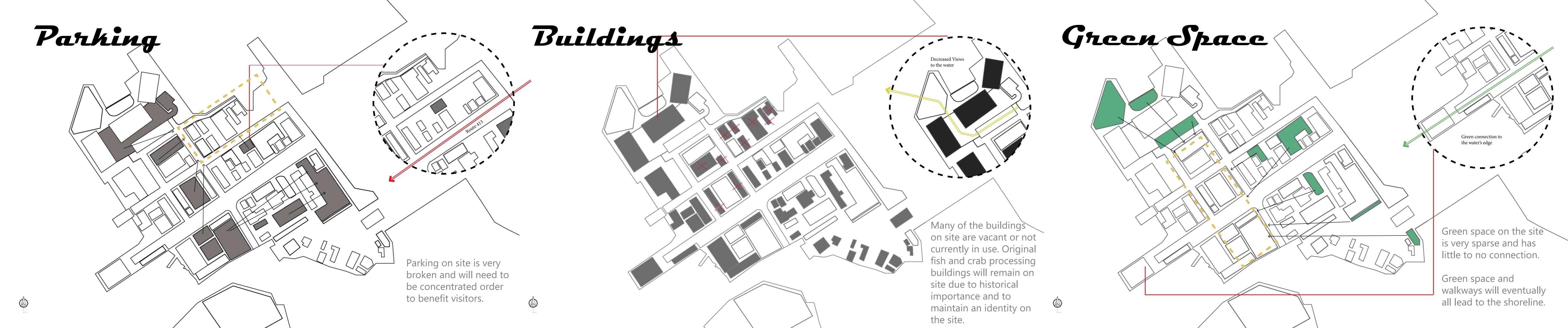
Key Issue:

Connecting the tourism with the local community will be a main design feature.

Making a connection from land to water and the ties that go along with each will further solidify the design goals and create a sustainable element to the design.







money cannot be eaten."

- Cree Indian Prophesy

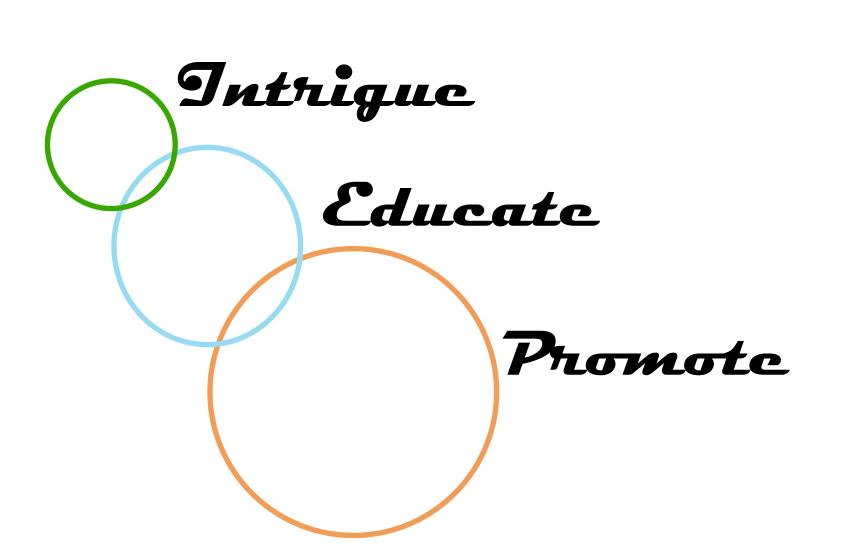
"Only after the last tree has been cut down...

the last river has been poisoned...the last

fish caught, only then will you find that

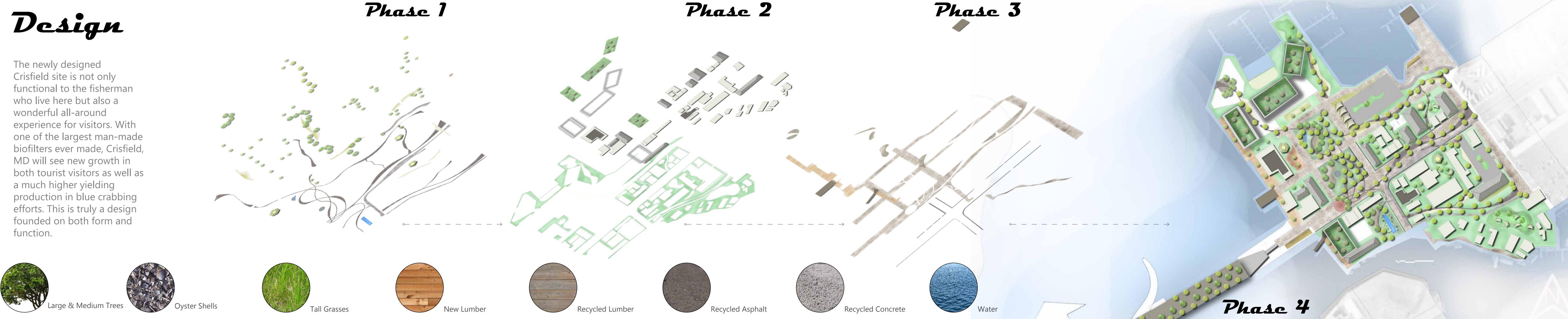
Connections Design
Process Intriguc Sustainability Habitat Detail Shapes to Design _____

Master Plan





Design





yster Shell



The use of oyster shells throughout the design is due to their unique ability to filter toxins and their abundance on

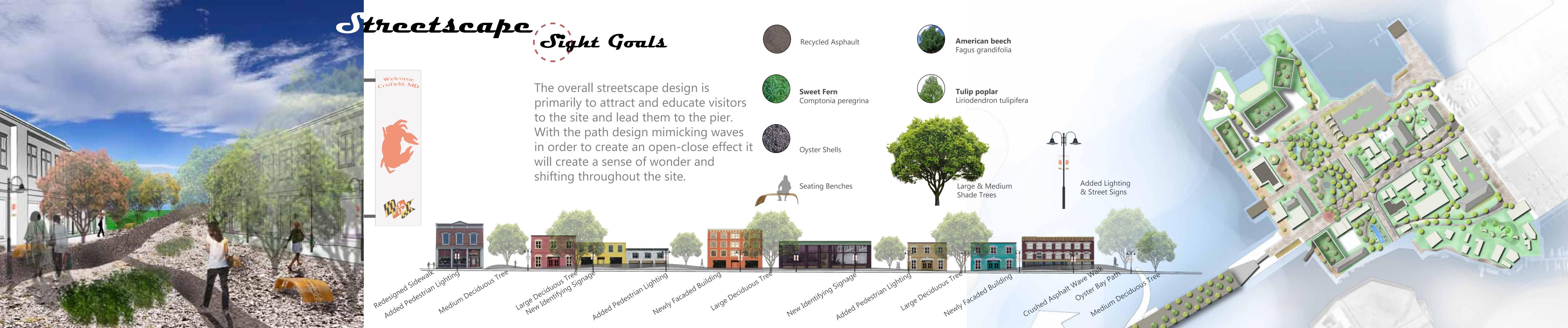
location.

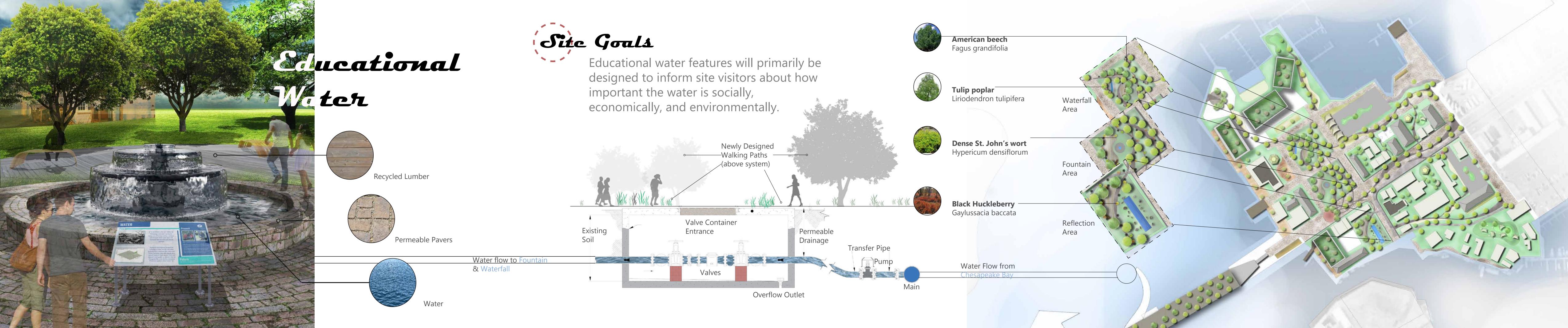
On land oyster shells will be gathered as they wash ashore to be used along streetscape walkways.

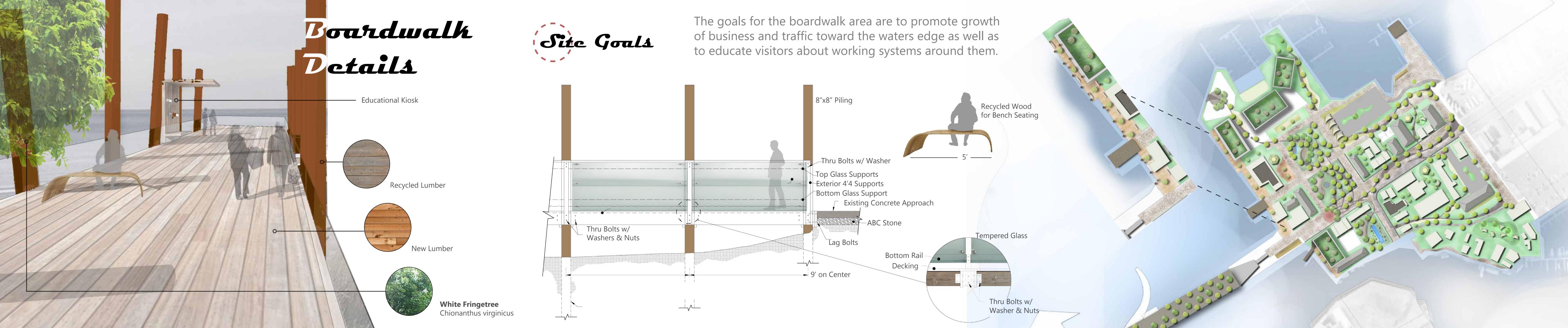
> Traditional riprap will be replaced with oyster shells which will give similar results while filtering toxins.

> > Live oyster dumpers will be used along site location waterways to reintroduce oysters to the area, creating the first step of the oyster life cycle.



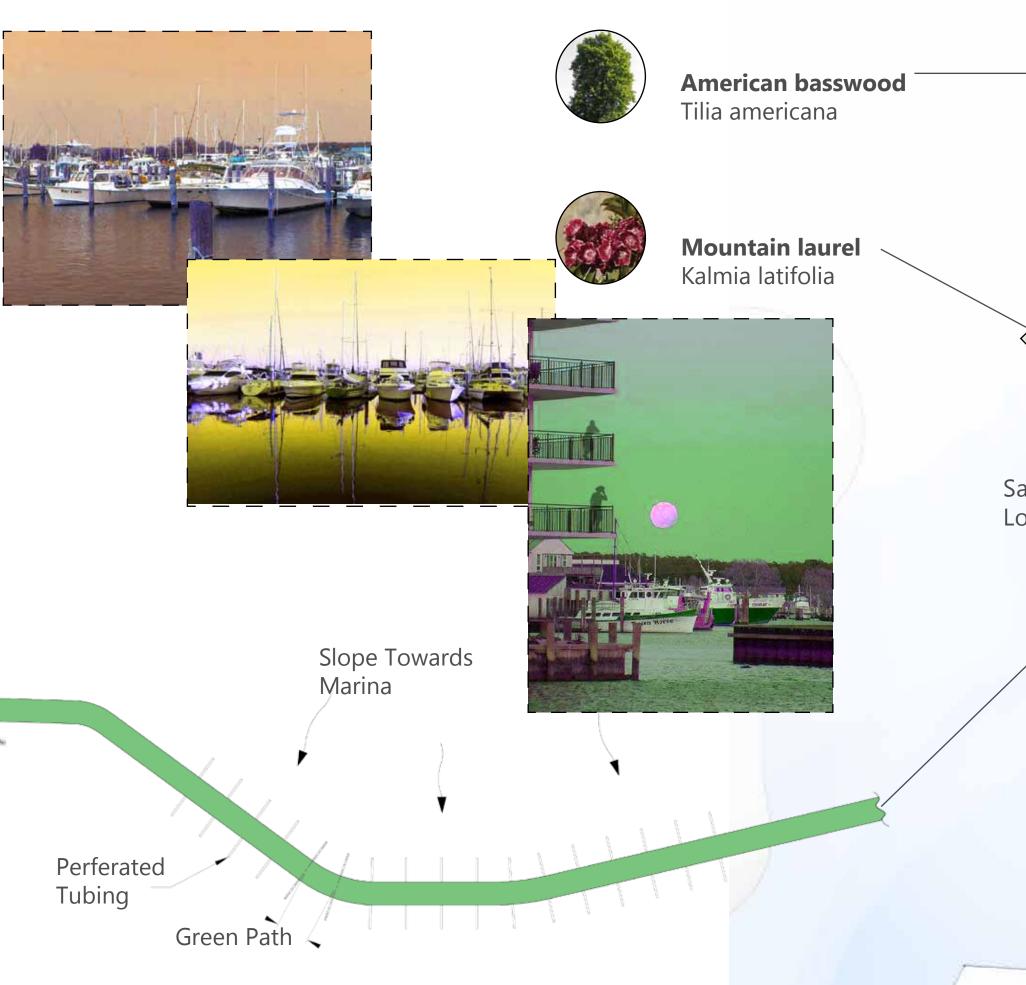






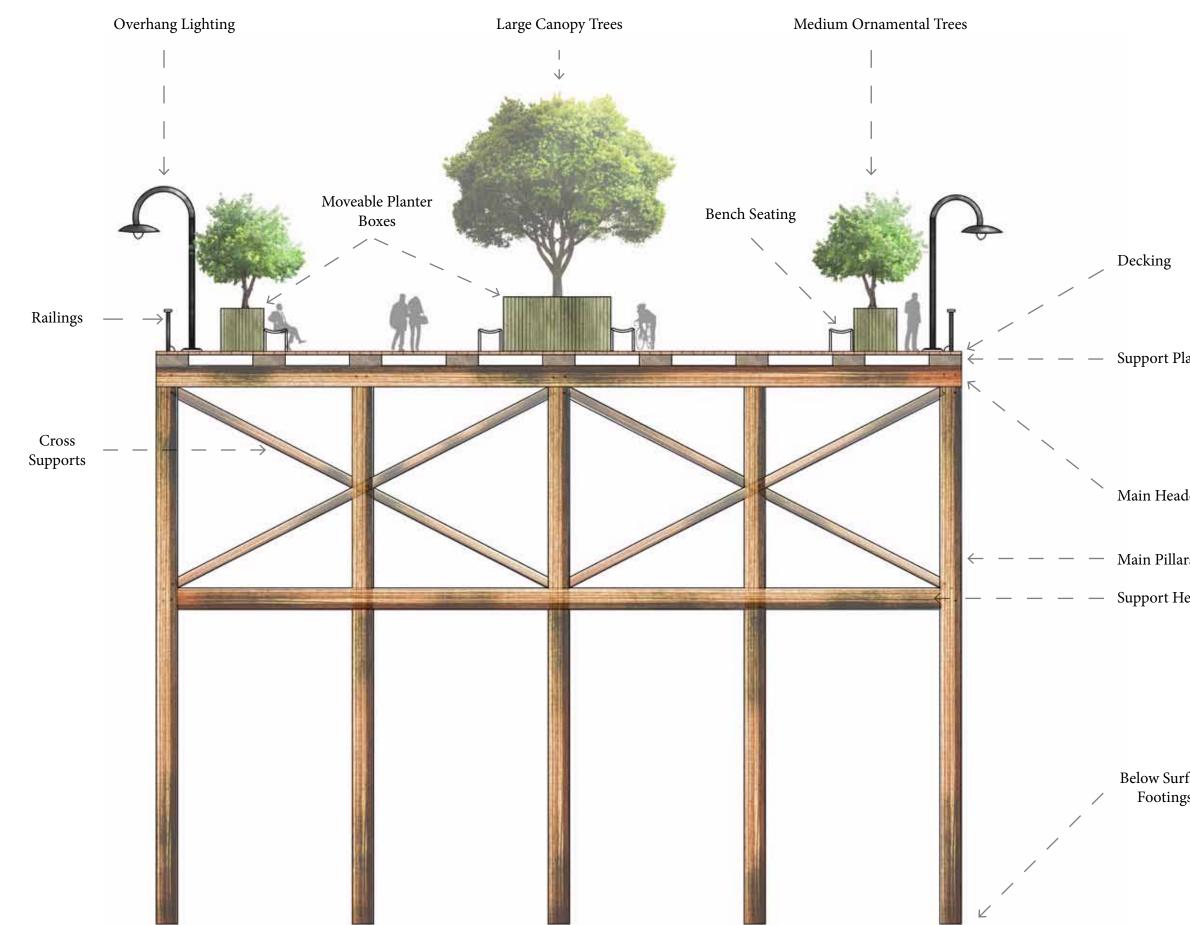




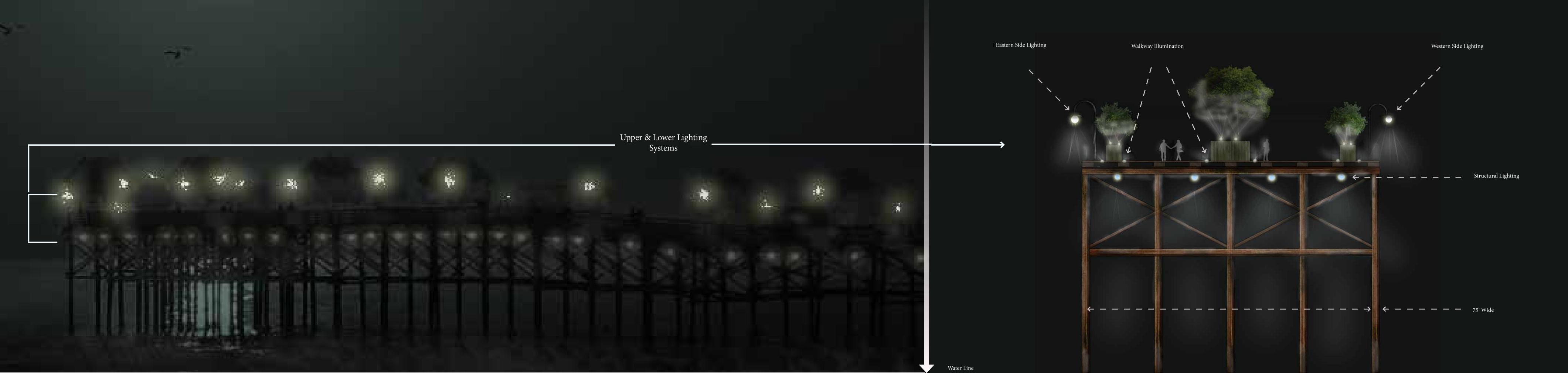


Sailboat Knol Lookout

Day Perspective Cross Supports



Night Perspective



From Beginning to-End

From the entrance onto the site all the way to the end of the new city, pier visitors will experience many things along the way. They will not only experience education about their surrounding ecology but will be witnessing working systems that ——will aid in a sustainable Crisfield, MD.



Overall Results

The overall design will have a profound effect on the city of Crisfield, its residents, to visitors and the overall economy. With a new opportunity for blue crab production and an improved ecosystem, Crisfield will now be capable of succeeding well into the future as the "Crab Capital of the World."



Autodesk 2012 Sketchup 8

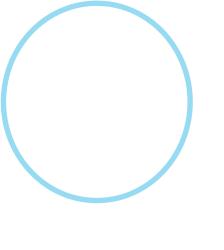
Adobe InDesign

Adobe Photoshop

ArcGIS

ArcMap

Maxwell Render



I want to give a special thanks to my thesis advisor David Crutchfield and all the faculty that helped me with the design process.



An Underwater Approach

by Travis Steffen LA 572 Thesis Design 2012

Oysters can filter as much as 2.5 g.p.h.

Oyster shells acts as a natural trap and keep large and medium sized particles from reaching the bay.

Oyster shells are a sustainable paving material in the area and will naturally become cyclical.

Decreasing populations not only affects oyster consumption, it creates a large problem for the underwater ecosystem. Oysters are "filter feeders". They're not just hanging out below and relaxing, they feed on algae and keep the water system clean. Smaller oyster populations and excess algae are causing some communities to build intricate sewage systems. The easy, natural, inexpensive answer is: build up the oyster population.



The blue crab population is vulnerable to increased harvest pressure, as well as the effects of habitat loss due to poor water quality. Proper management of the crab harvest, as well as water quality improvements and bay grass restoration efforts will help restore the Bay's blue crab population and maintain this valuable resource into the future.

There's nothing more
"Chesapeake" than the
Bay's signature
crustacean.







Back

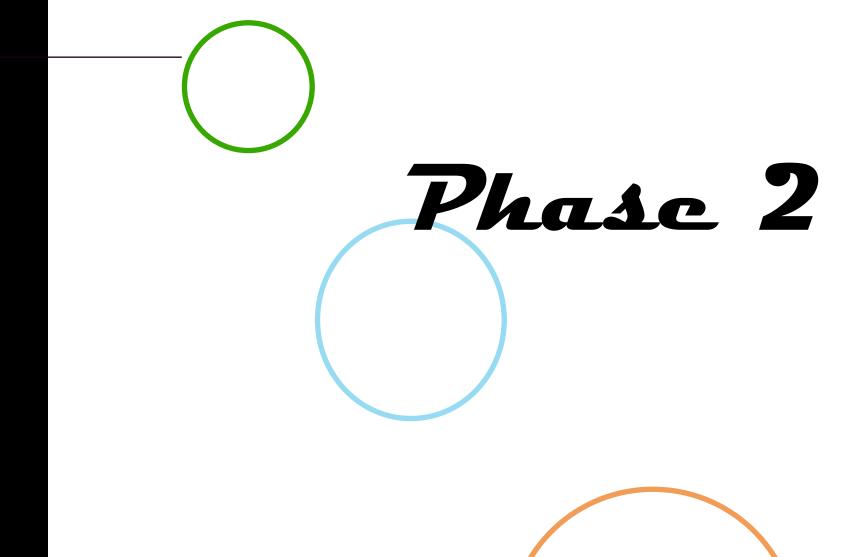
Detail Examination

Phase

Phase 1 of the design will consist of the removal of many of the existing parking lots and broken sidewalks, and in turn reuse the material to help build the new pathways. Both concrete and asphalt will be used. Along the paths, new trees will be installed along with smaller shrub plantings. Also, the three educational water features will be placed.

Phase 3

Phase 3 of the design will consist of installation of the greenroof areas on top of the four water edged hotels, as well as replanting of all grass and open greenspace areas. During this phase, building facades will be updated and abandoned buildings will be discarded or relocated.

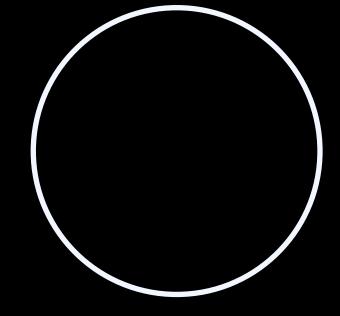


Phase 2 of the design will consist of laying and installing of the oyster bay paths as well as adding new fishing docks and boardwalk along the water's edge and tying them into the rest of the city. Greenspace boardwalks will be installed and educational signage will be placed at this

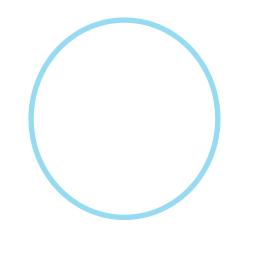


Phase 4

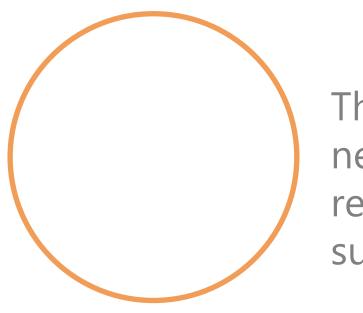
Phase 4 of the design will consist of the construction of a multipurpose pier. The pier will consist of a 1500' bio filter that will clean and promote growth of SAV vegetation, draw visitors to the site, and educate and promote blue crab growth. The biofilter will consist of anchored stainless steel cables intertwined with underwater vegetation that acts as membranous filter and will second as a blue crab habitat.







The city of Crisfield will fund most, if not all, of the initial capital needed, and provide infrastructure cost updates as needed. As blue crab production yields increase, more revenue is generated, providing an opportunity to increase sales tax on related sales.



Who Benefits?

Crisfield, MD

The city of Crisfield will greatly benefit from the new design, including local retail shops, tourist related businesses and watermen, as well as surrounding agricultural practices.



Both the museum and the dive center will have a profound impact on the history of the site as well as the resources to protect the site into the



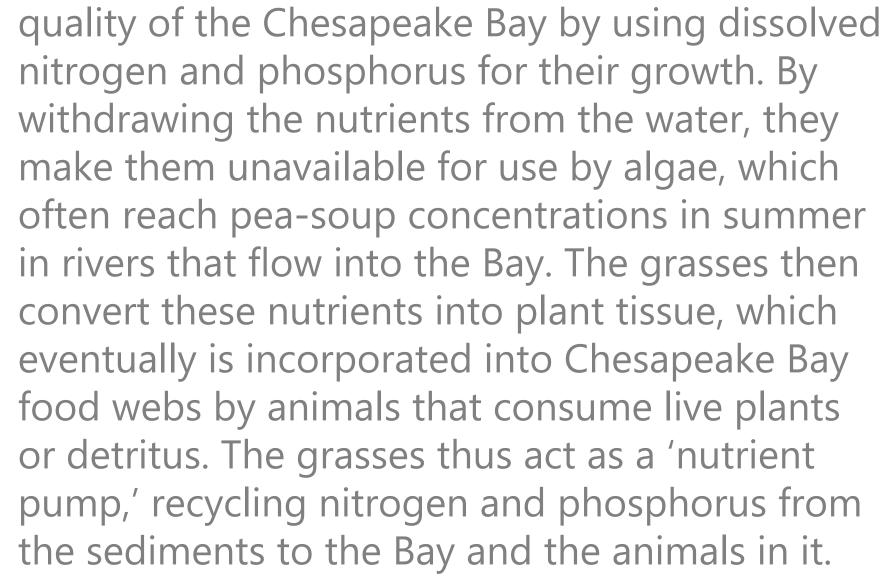
The dive center will be responsible for further developing SAV growth strategies as well as educating visitors underwater.



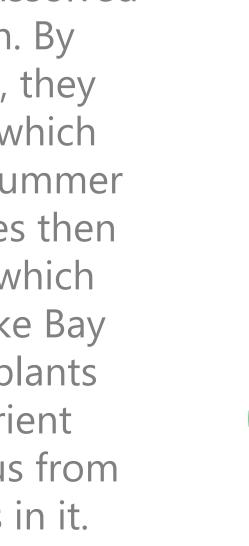
Crisfield, MD

Back





Submerged aquatic plants can affect the water







References

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