

# **BLUE FOLDER ITEM**

*Blue folder items are additional back up material to administrative reports and/or public comments received after the printing and distribution of the agenda packet for receive and file.*

## **HARBOR COMMISSION MEETING April 11, 2022**

### **L.2. DISCUSS AND PROVIDE INPUT REGARDING POTENTIAL PROGRAMMING OF A FUTURE EDUCATIONAL FACILITY AT THE WATERFRONT**

**Attachments:      Presentation by Thomas Grimm**

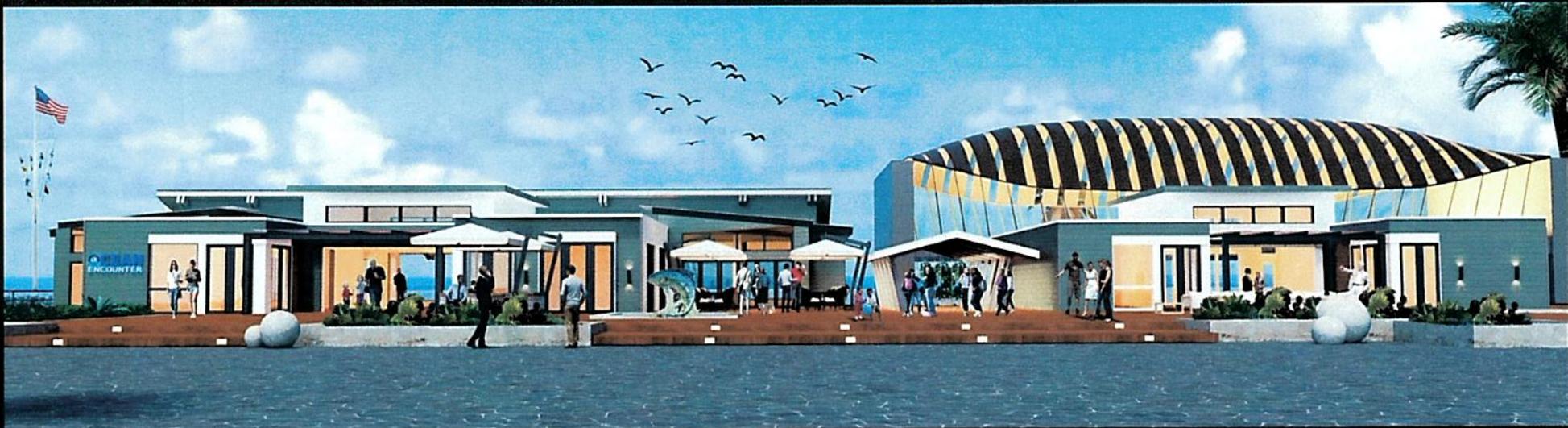
**CONTACT: GREG KAPOVICH, WATERFRONT & ECONOMIC DEVELOPMENT DIRECTOR**

The logo features a circular emblem on the left. Inside the circle, there are stylized waves at the bottom, a vertical line representing a person or a structure in the water, and two small circles above it, possibly representing bubbles or a sun. The text 'OCEAN' is written in a large, bold, dark blue sans-serif font to the right of the emblem. Below 'OCEAN', the word 'ENCOUNTER' is written in a smaller, light blue sans-serif font.

# OCEAN ENCOUNTER

Ocean Encounter will be established as a non-profit organization to engage and deepen our connection with the coastal environment, to promote benefits of seafood for sustained brain and heart health beginning at conception and continuing throughout our lifetimes, and to address the issues of seafood insecurity and sustainability.

# OCEAN ENCOUNTER



Augmented Reality, Restoration Aquaculture,  
Aquaponics Gardens and Studio Kitchen



## Aquaculture

Habitat Restoration,  
Demo and Training

## Augmented Reality

Encounter Exhibits  
Marine Drone Simulators

## Studio Kitchen

Public Food Gardens  
& Public Education

## Aquaponics

Public Food Gardens  
& Public Education

## Conferences

Teacher Workshops  
and Public Forums

## Ocean Culture

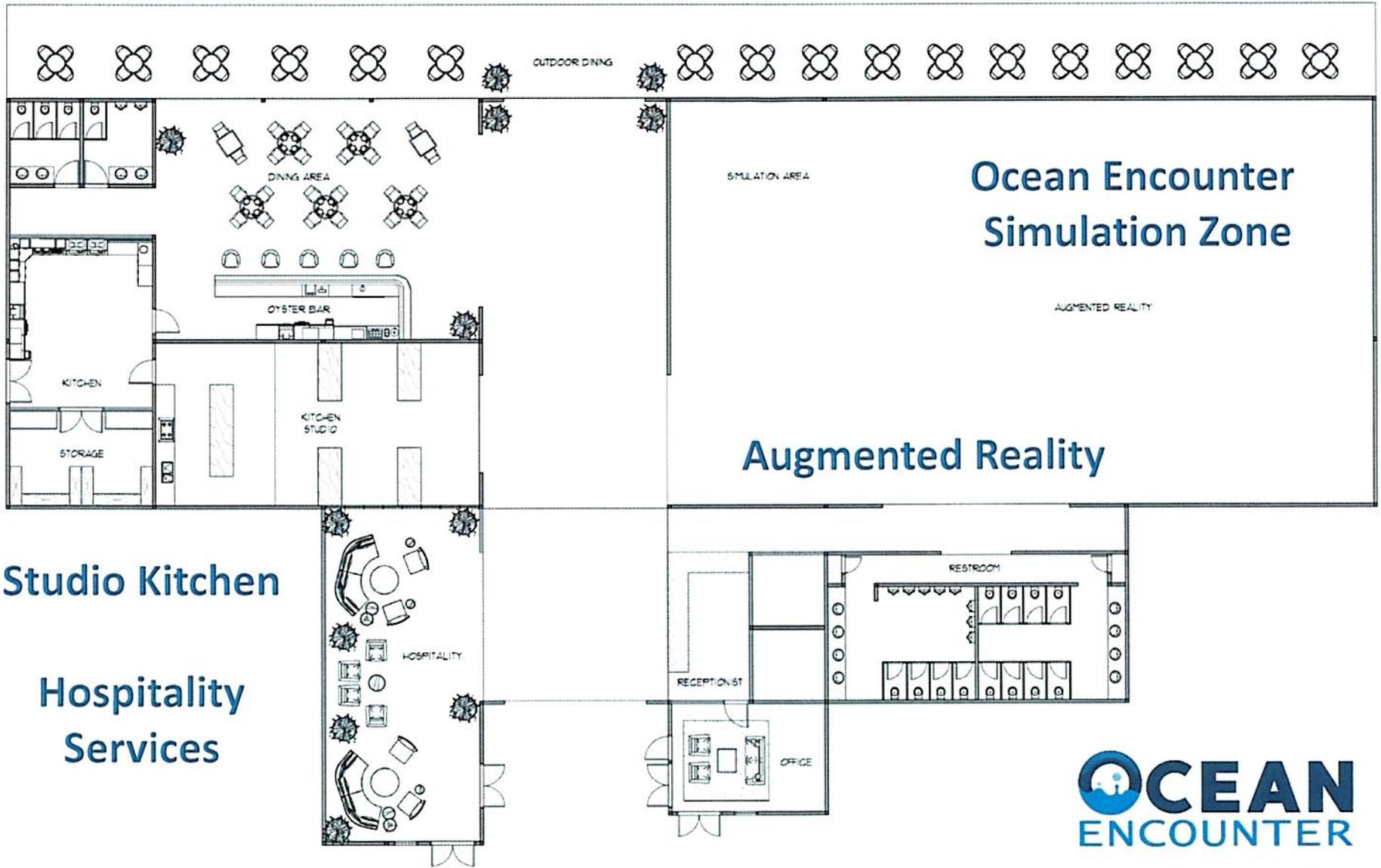
Performing Arts &  
Harvest Festivals



# OCEAN ENCOUNTER

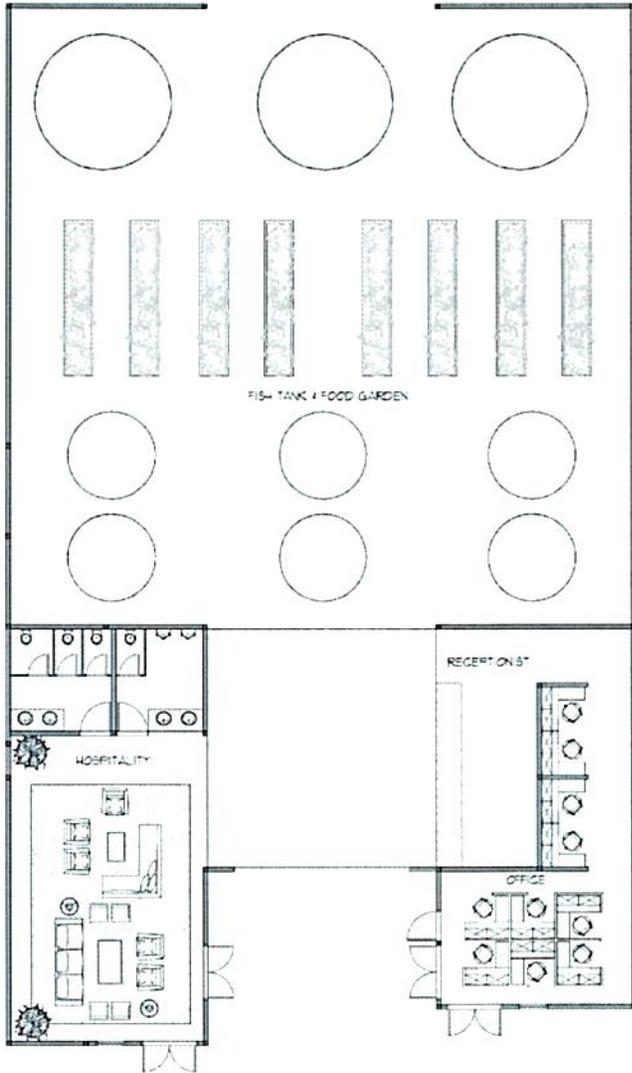


Augmented Reality, Restoration Aquaculture,  
Aquaponics Gardens and Studio Kitchen



# Ocean Encounter Conceptual Space Plan

# Aquaponics Garden



**OCEAN**  
ENCOUNTER



Ocean Encounter

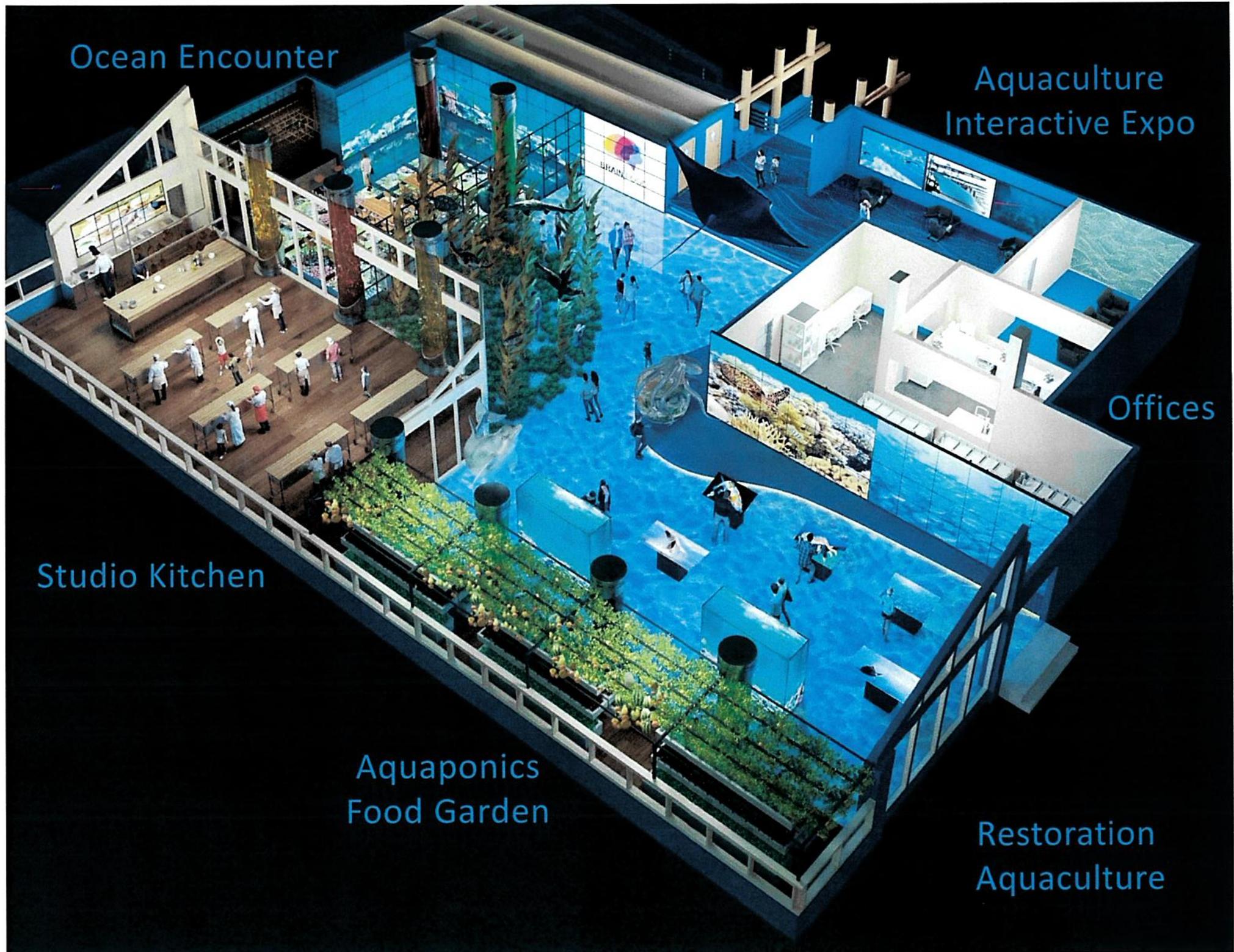
Aquaculture  
Interactive Expo

Offices

Studio Kitchen

Aquaponics  
Food Garden

Restoration  
Aquaculture





Augmented Reality

Studio Kitchen

Aquaponics  
Gardens

Reception

A person with dark curly hair, wearing a white VR headset and a light-colored sweater, is shown in profile, interacting with a vibrant, colorful virtual coral reef. The reef is filled with various types of coral, including branching, brain, and table corals, and is populated with numerous colorful fish, including clownfish, tangs, and a large sea fan. The background is a deep blue ocean with sunlight filtering through the water. In the top right corner, there is a logo for 'OCEAN ENCOUNTER' featuring a stylized blue circle with a white wave and a person's head inside, followed by the text 'OCEAN ENCOUNTER' in a bold, blue, sans-serif font.

OCEAN  
ENCOUNTER

Visitors explore immersive coastal habitats where marine life behaves and responds to the visitor's every motion.

QYSEA

# EXPERIENCE THE UNDERWATER WORLD



Consumer OMNI-4K Underwater Robot

**FIFISH** **VE**  
UNDERWATER ROBOT

Escape to the Ocean



QySea Founder  
Belinda Zhang

Concept Proposal

2022

# Ocean Encounter Portal



Thomas Grimm  
 Brain Food Entertainment  
 3/5/2022

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# OCEAN ENCOUNTER



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# Virtual and Augmented Reality



*In addition to Augmented Reality **Ocean Encounter** utilizes interactive visualization to enliven the visitor experience in exploring diverse marine habitats by delivering intimate, entertaining and transformative encounters without headsets that inform the public about the challenges facing the World Ocean, and to inspire and engage people with a sense of exploration, discovery, wonder and adventure.*

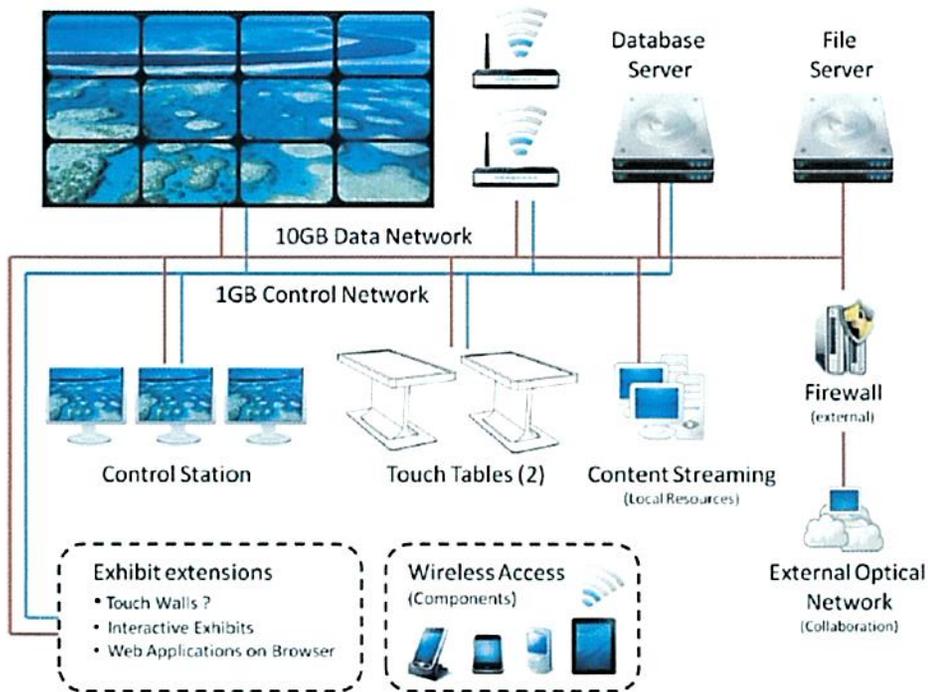


Figure 4: Basic Ocean Quest Portal Layout

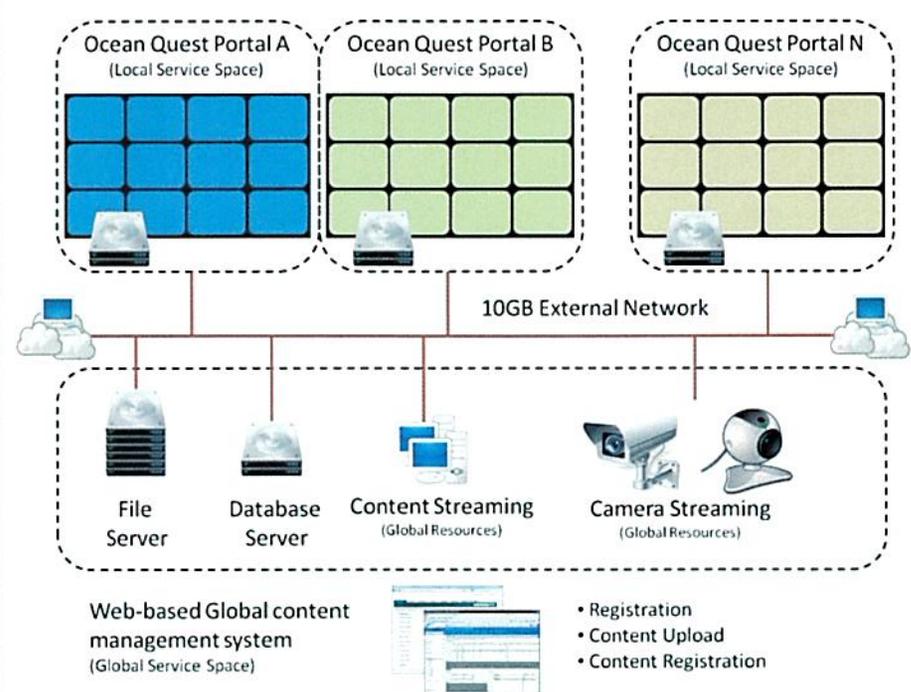


Figure 5: Global Service Management

# Ocean Encounter's Hiperwall backend portal layout and global service management architecture

# OCEAN ENCOUNTER



Studio Kitchen



Apprentice Chefs



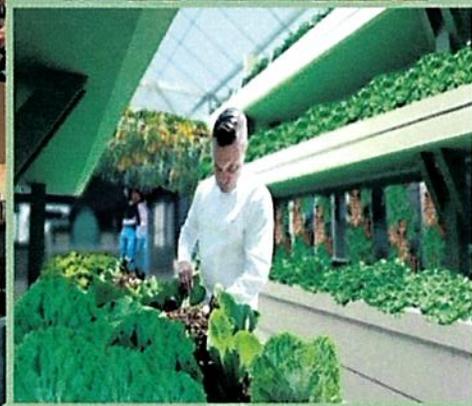
# AQUAPONICS GARDENS



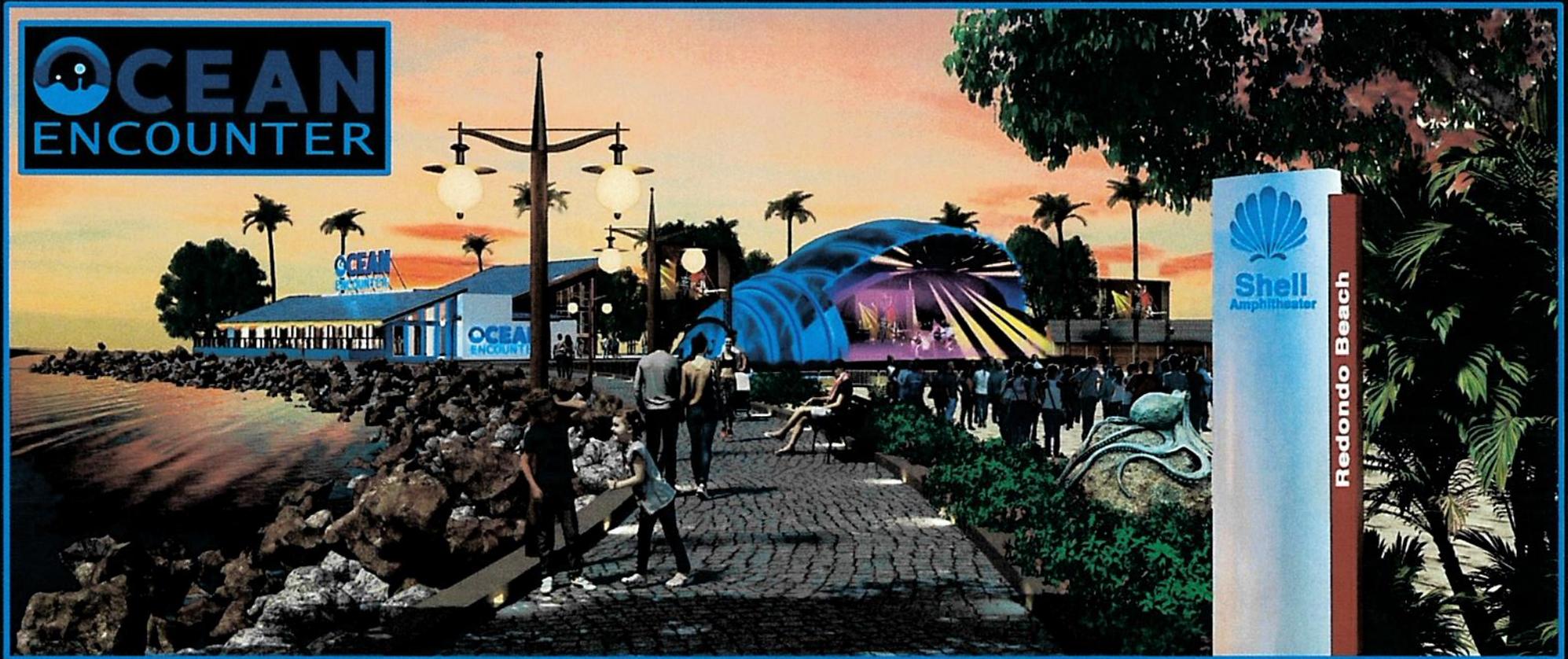
# AQUAPONICS GARDENS



# BROADCAST STUDIO KITCHEN



Ocean Encounter is a nexus of immersive Augmented Reality of coastal habitats, restoration aquaculture, sustainable seafood, health, community engagement and connection of Redondo Beach with diverse, healthy coastal ecosystems



Solar-powered bandshell with lithium battery arrays under the stage