THE PHENOMENOLOGY OF PLACE:

A BOAT MAKING AND EDUCATIONAL FACILITY IN THE PORT OF LOS ANGELES

by

Bernardo Terán II

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In Partial Fulfillment of the Bachelor of Architecture degree

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ARCHITECTURE

THE UNIVERSITY OF ARIZONA

MAY 2015

Approved by:

Susannah Dickinson, RA

Assistant Professor, School of Architecture

Mannet Dikis

BERNARDO TERÁN

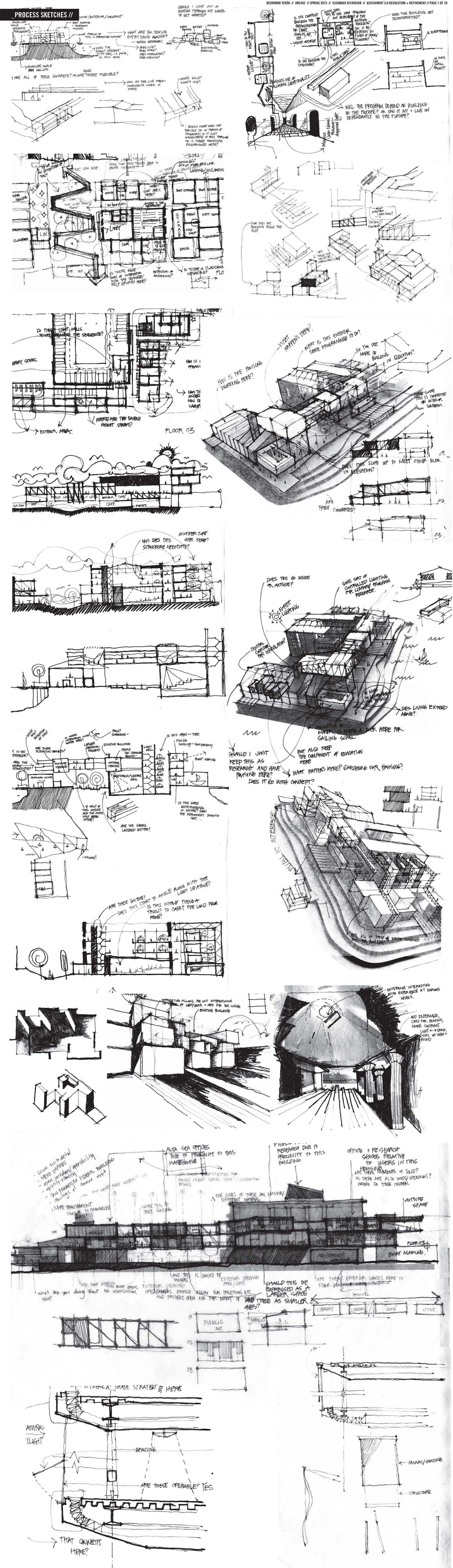
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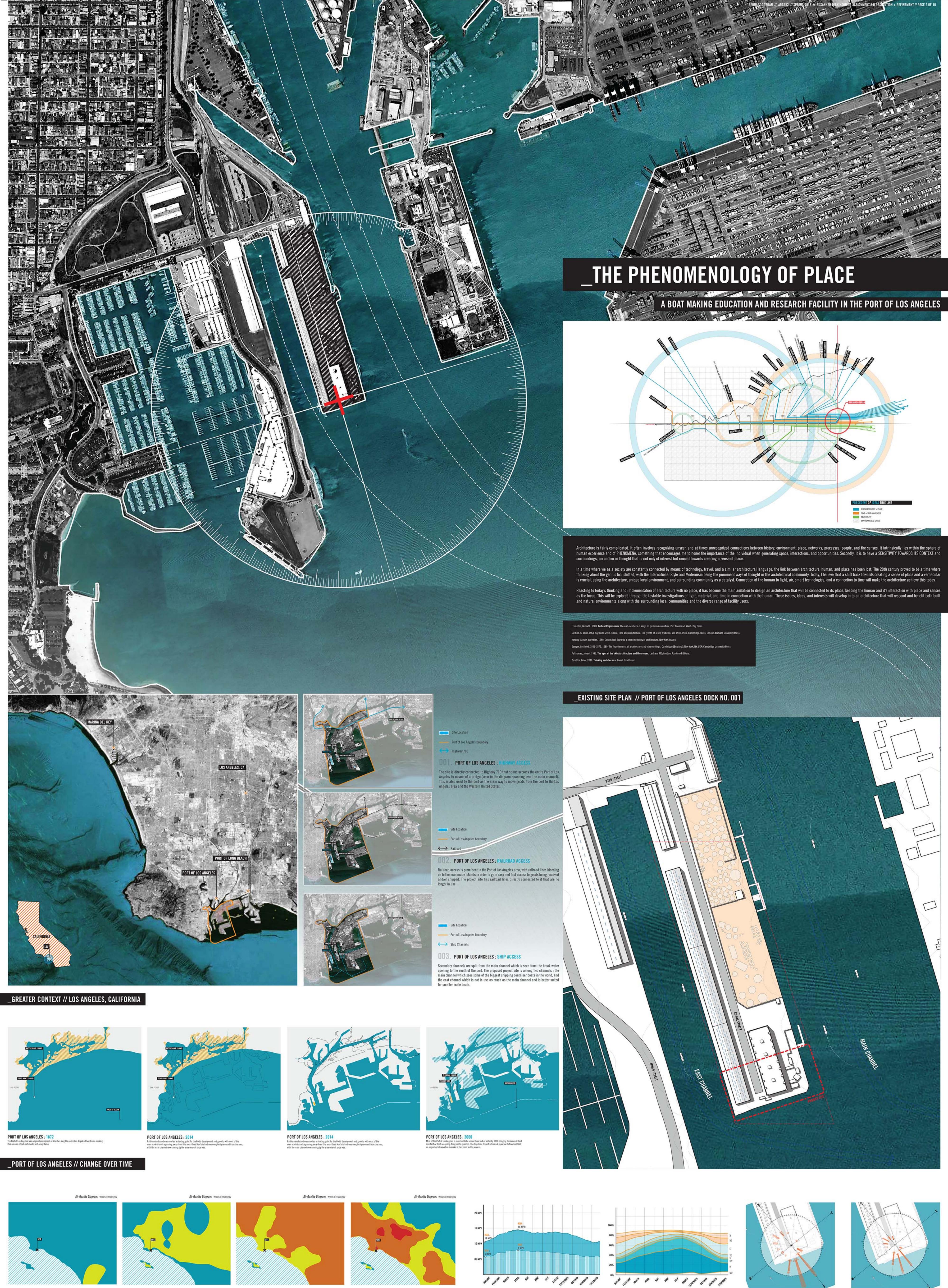
HONORS COLLEGE THESIS APPLICATION

THE PHENOMENOLOGY OF PLACE: A Boat Making and Educational Facility in the Port of Los Angeles

This Architecture thesis proposal explores issues related to place-making and connection of local phenomenological aspects to the human. The program of the project was developed in order to reflect this, with it being composed of four different blocks: housing, education and research, public use, and boat making. The specific phenomena of light, wind and water are the organizing principles that drive the project, aiming to better connect the desolate site and users to these unique qualities. The site of this proposal is in the Port of Los Angeles, a contrasting place that is known for it's transient nature and man-made environment.

Reacting to today's thinking and implementation of architecture with no place, it has become the main ambition to design an architecture that will be connected to its place, keeping the human and it's interaction with place and senses as the focus. This will be explored through the testable investigations of light, material, and time in connection with the human. These issues, ideas, and interests will develop in to an architecture that will respond and benefit both built and natural environments along with the surrounding local communities and the diverse range of facility users.

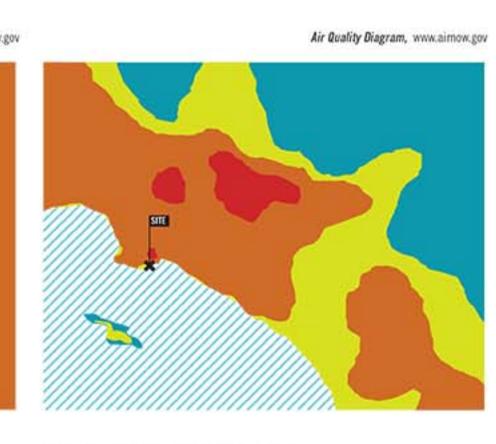


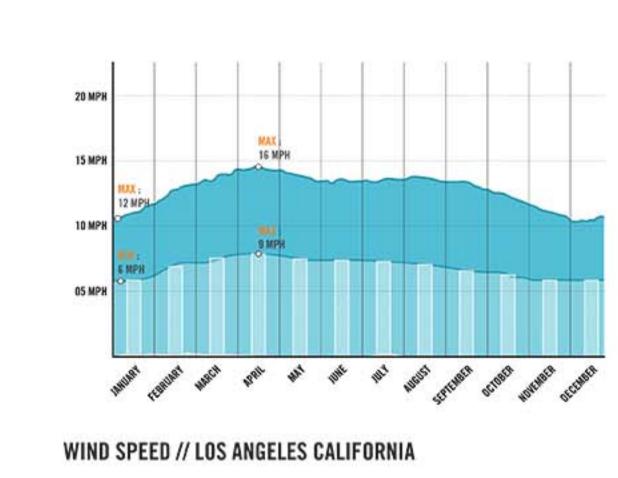


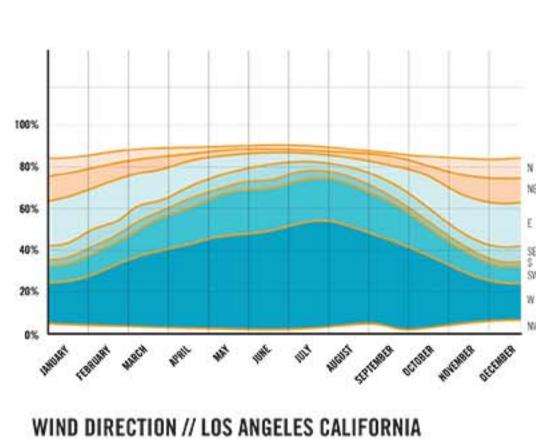
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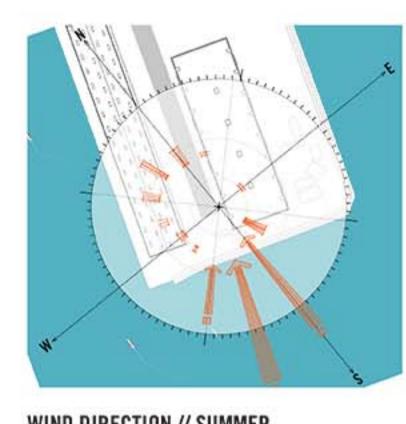


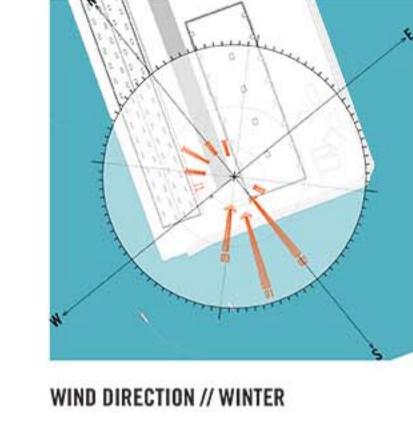












AIR QUALITY : MARCH 2014

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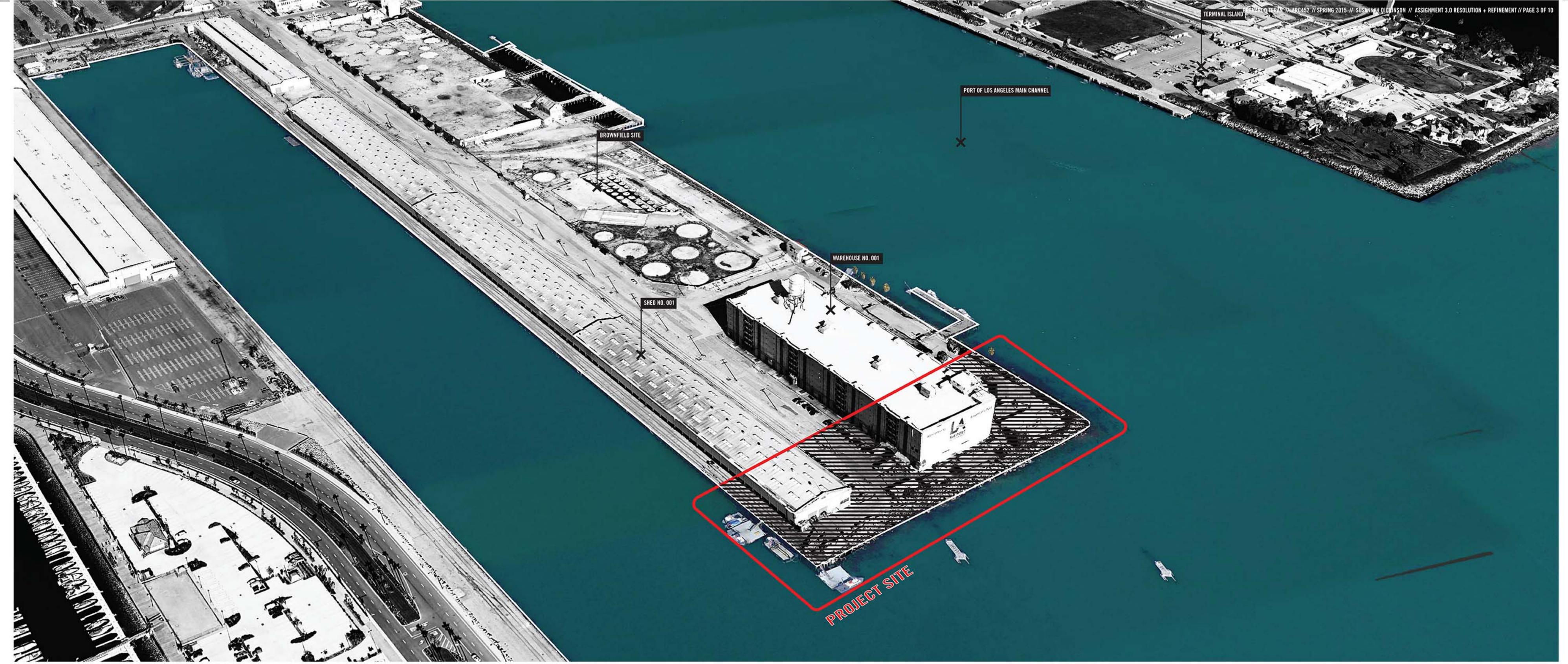
AIR QUALITY: OCTOBER 2014

WIND DIRECTION // SUMMER









_EXISTING SITE AERIAL PERSPECTIVE



FUTURE DEVELOPMENT PLAN: DOCK NO. 1 The proposed master plan for this project's specific site, Port of Los Angeles Dock 01, is planned to be completed in 3 phases. The first phase would include an educational complex, composed of laboratories and classrooms, and a marina interpretive center. The second phase, planned on a brownfield site, is meant for governmental research. The third phase is still unclear and includes Historic Warehouse No. 1.



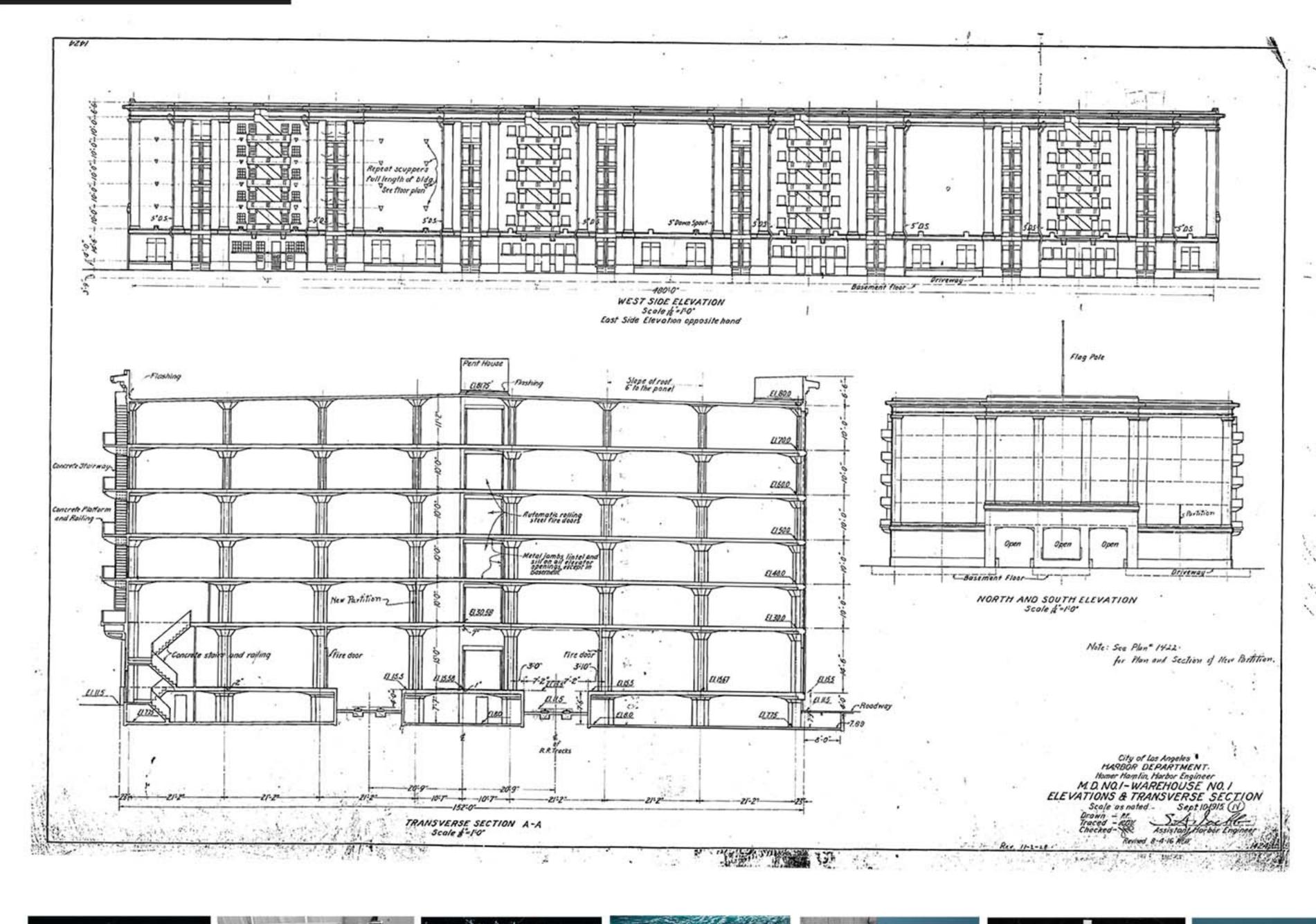
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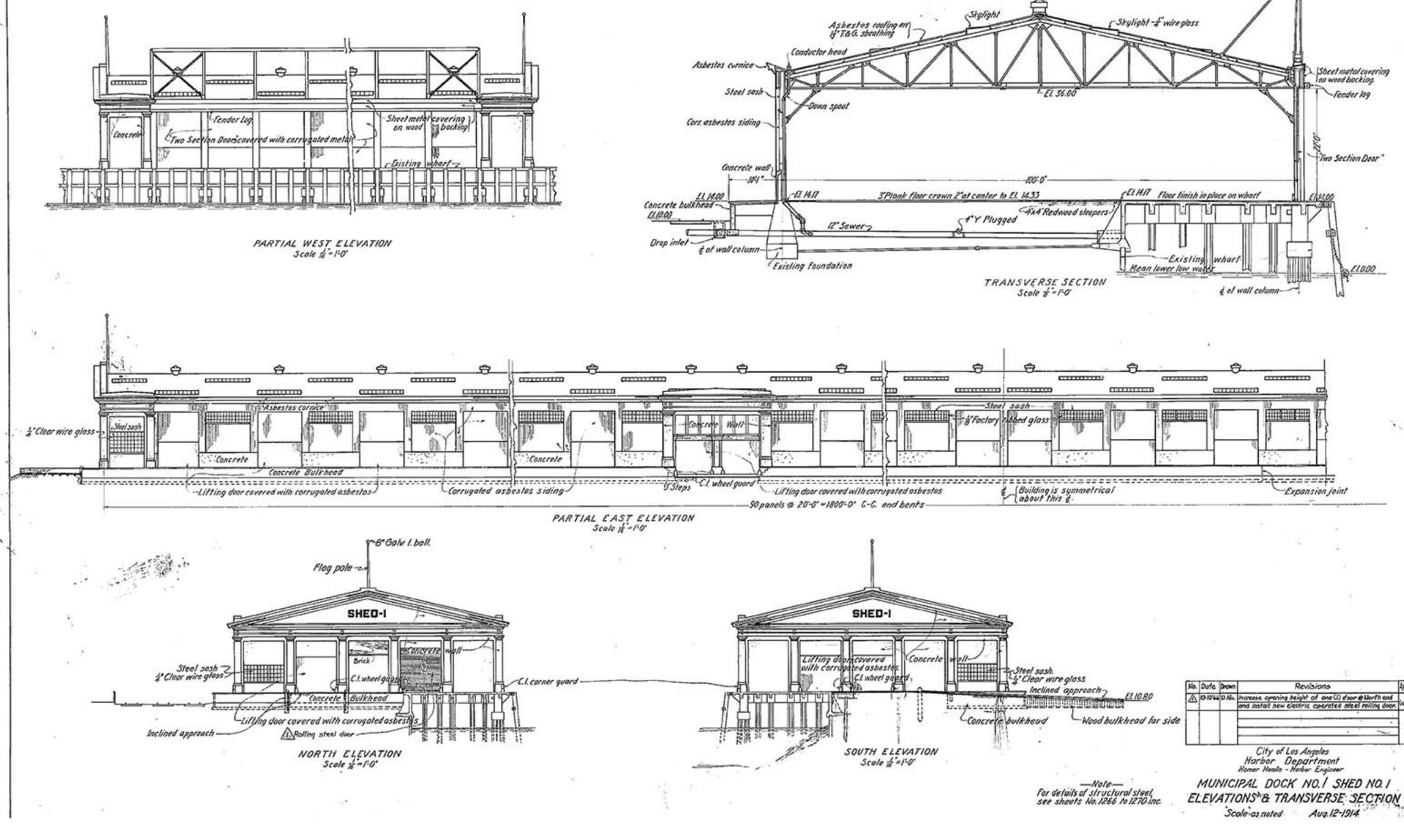


DOCK NO. 1 RESEARCH INSTITUTE

The proposed research center on Port of Los Angeles Dock No. 1 is meant to both be the public face and center for marine research.









_FUN PALACE unbuilt

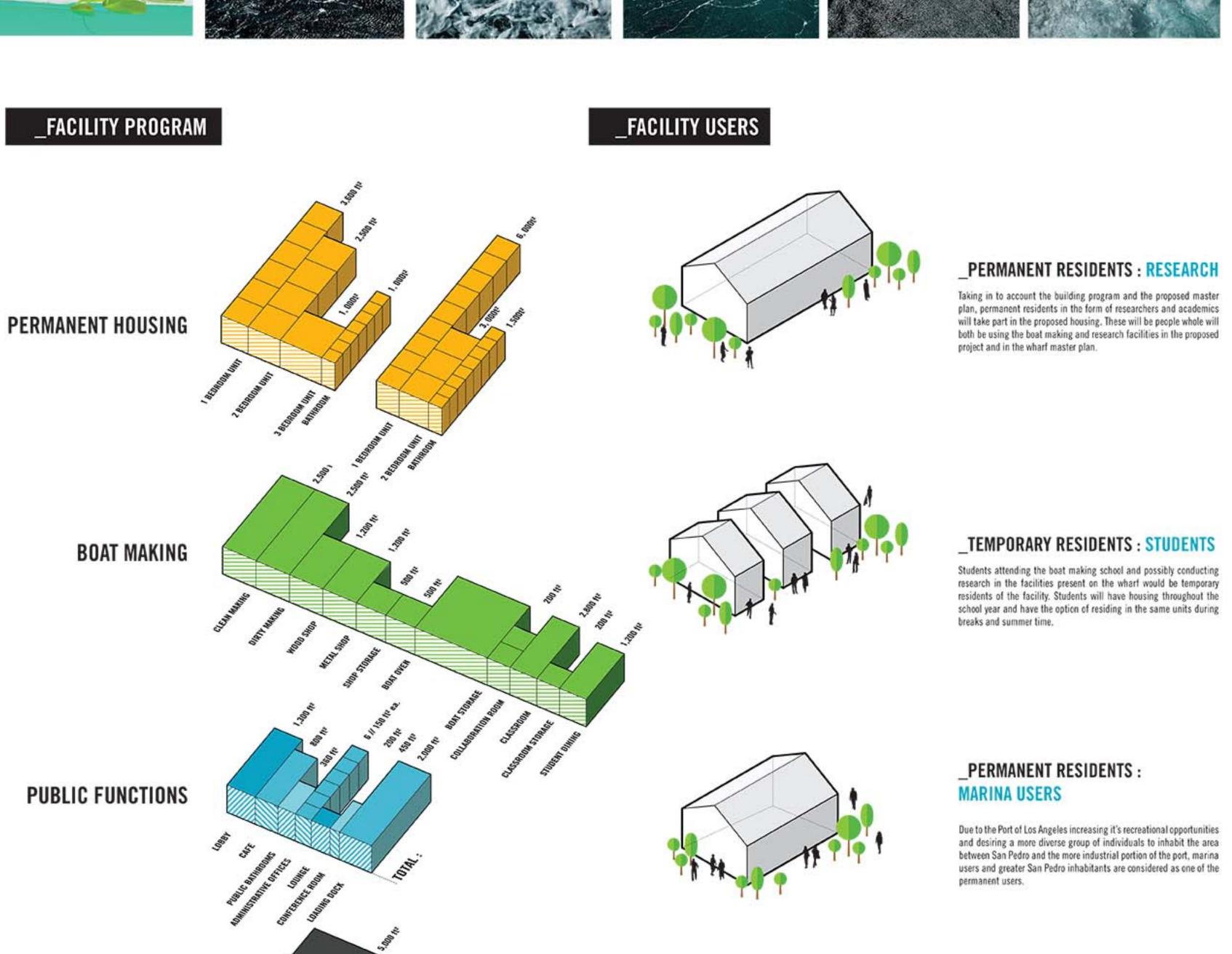
_RELEVANT PROJECT PRECEDENTS

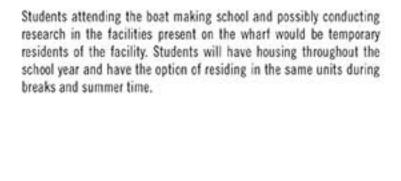
_SPLITTING temporary

FACILITY + ORGANIZATIONAL GOALS:

With the Internet being an integral part of our daily lives, maker culture within our society has increased and changed the way we look at innovation, making, and collaboration. The maker culture has become dispersed in millions of do-it-yourself projects and basement workshops, where men and women have saught the wholeness and joy they cannot find on the job or at home. Besides this, maker spaces and culture in general have aided in the start-up boom. Taking note of the site's history and future institutional and research focused goals of the Port of Los Angeles the facility aims to take the concept and act of making in to today. The main goals of the facility are as follows:

- Give the users a sense of MAKER EMPOWERMENT- a sensitivity to the designed dimension of objects and systems, along with the inclination and capacity to shape one's world through building, tinkering, redesigning, or hacking
- EMPOWER people to shift from being passive consumers of their world, something that the Port of Los Angeles is a beacon for, to being active producers, collaborators, and contributor's to tomorrow's world.
- Provide a space that gives a sense of self empowerment and collaboration among the students and residents of the facility. Along with this, provide a space that enables innovation in material and technology sciences through the use of cutting edge tools, programs, and techniques.
- Provide a live-work community for the users, where living and working are synonymous and interrelated. Aside from this, the facility will provide temporary and permanent housing options for the users.







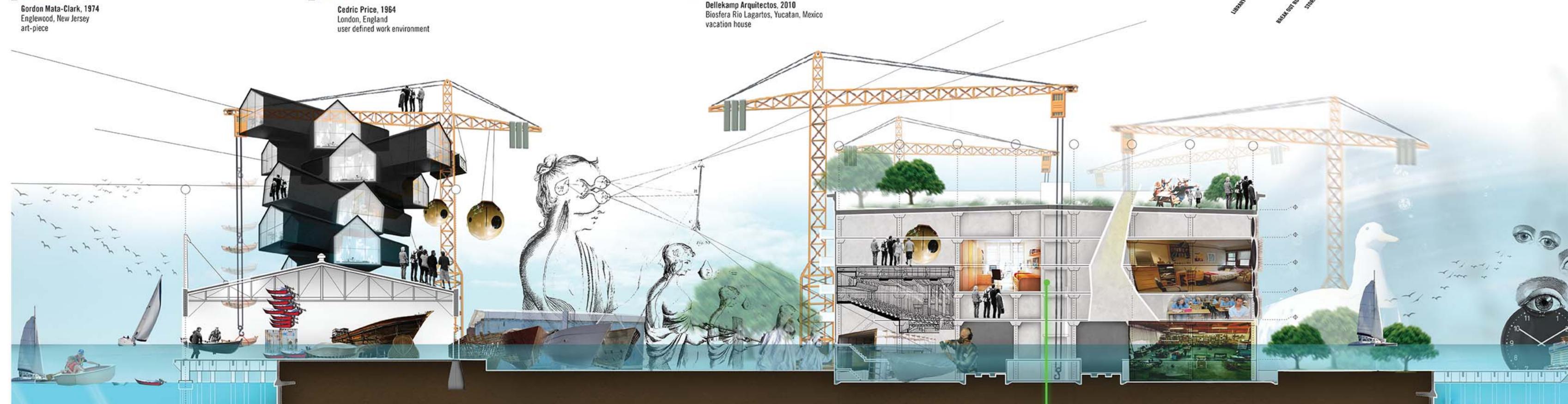




A boat making school requires individuals who have mastered the craft of boat making. The temporary residents will mainly use the boat making and research facilities. Any supporting staff also have the option to reside on the facility premises.



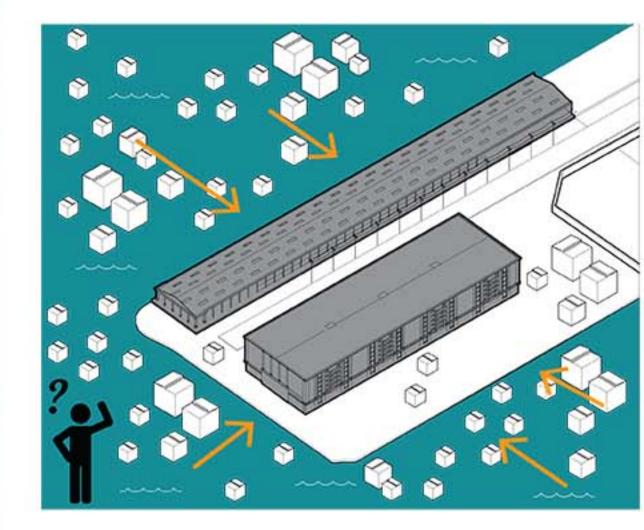
Dellekamp Arquitectos, 2010 Biosfera Rio Lagartos, Yucatan, Mexico vacation house





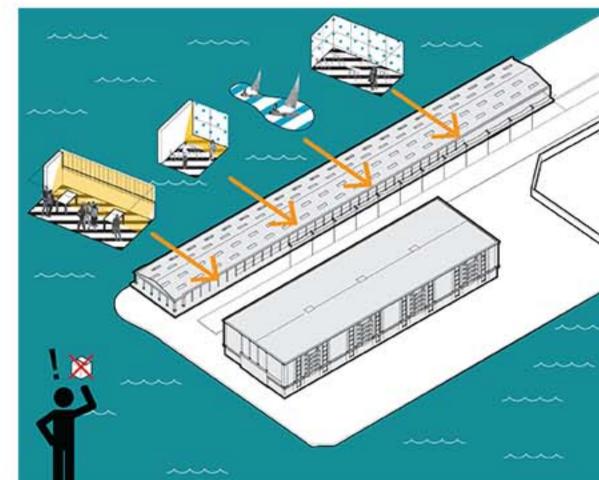
_PROPOSED SITE PLAN

_PARTI DIAGRAMS



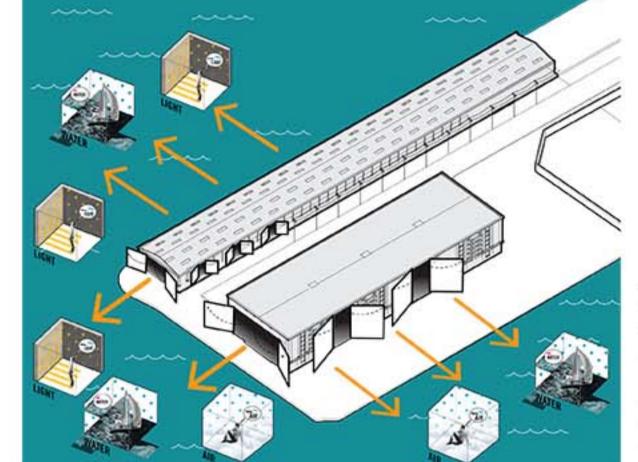
001. TRADITIONAL WAREHOUSE TYPOLOGY

The traditional use of the warehouse typology in the Port of Los Angeles, as with the existing buildings on the site, is the storage of objects making the architecture specific and only specific to the objects themselves.



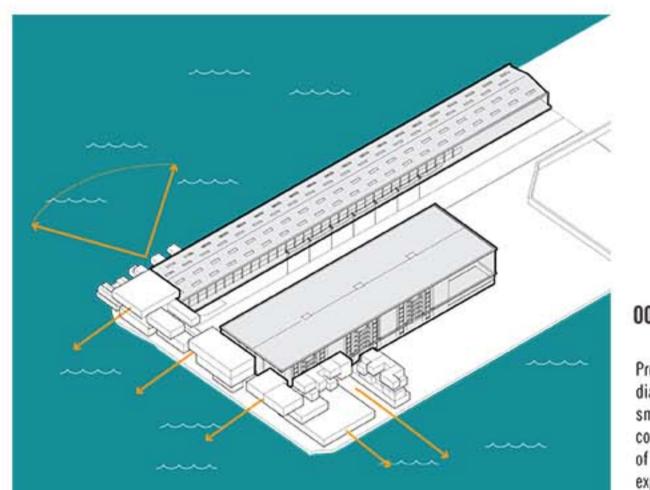
002. WAREHOUSE BUILDING TODAY

public use, and housing leads way for the re interpretation of the warehouse typology, making it specific to humans. Thinking about the phenomenology of place in the context of the two warehouse buildings becomes the premise for the architectural project.



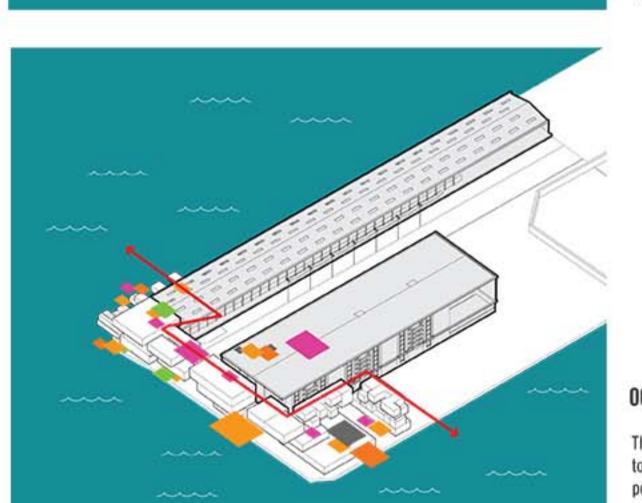
003. OPENING UP TO THE ELEMENTS

The three elements of WIND, WATER, AND AIR, were narrowed down for the exploration of the project, looking at the variety of program's connection to these elements. The scheme developed to become one where the architecture opens up to these elements, having a connection to the specific phenomena not a complete detachment as typically seen with warehouse buildings of the time.



004. PROGRAM PLACEMENT

Program massing placed on site relative to the conclusions of initial diagrams, exposing the smaller scale permanent housing to the smaller scale channel, having the temporary housing and boat making connected to the main channel, and having the educational component of the program span between both sides — allowing for a continuous experience of the site.



005. PIXELATION OF PHENOMENA + EXPERIENCE

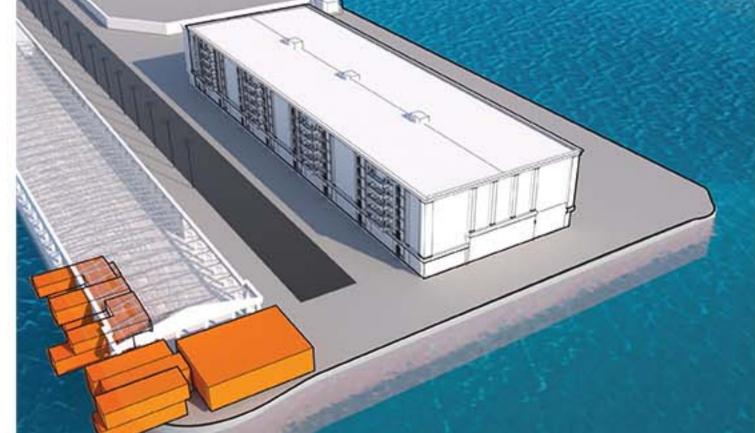
The scheme allows for specific connection to specific elements relative to the program, giving priority to some over others. The aggregated and porous scheme allows for a pixelation of different phenomenological experiences of either wind, water or air.

_PROGRAM SEQUENCE



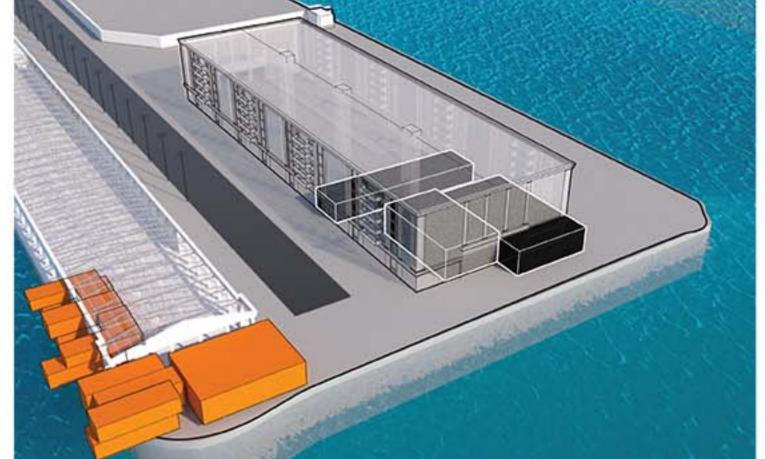
001. EXISTING PORT OF LOS ANGELES SITE // 2015

The existing peninsula conditio consists of two warehouse buildings seperated by Signal Street — a street that was historically used for rail and elecricity when the berth was first used. The site is surrounded by water on three



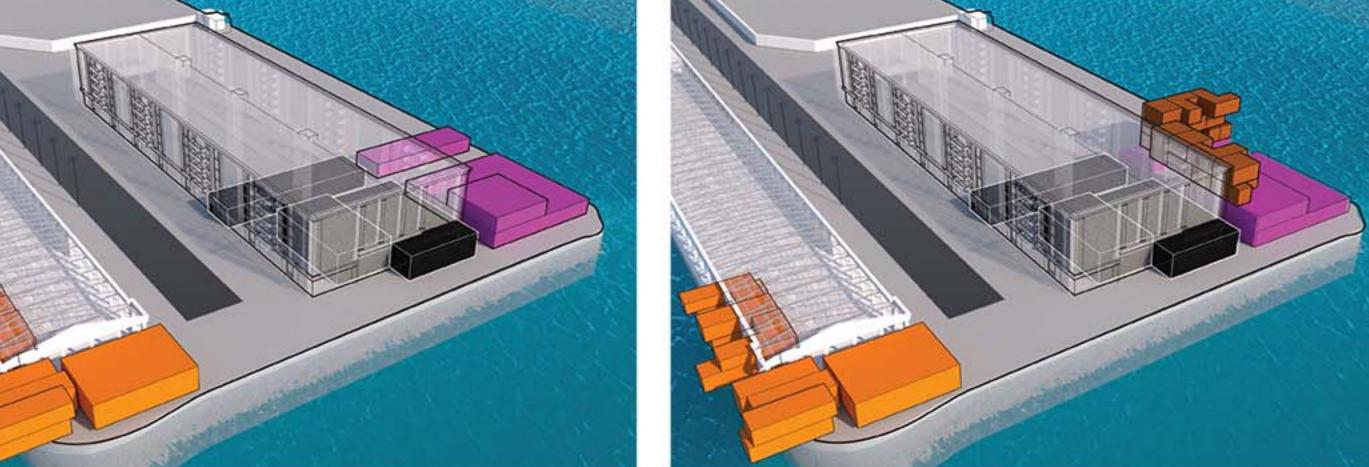
002. TEMPORARY HOUSING

Smaller scale temporary housing is placed in the smaller scale Warehouse due to it's experiential qualities near the water and it's proximity to more of the residential neighborhods of San Pedro. These housing units respect the building grid by being placed in between them.

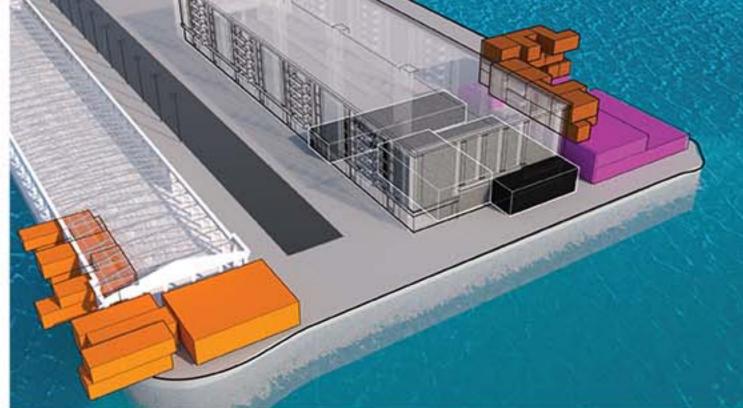


003. PUBLIC PROGRAM

Due to not needing a direct connection to any of the three phenomenological aspects relevant to the project, most public programs were placed within the first floor of the Warehouse No. 1 building. The program however does have moments where it is connected to light as in the Lobby and also to the wind and water, as in the case with the auditorium which opens up to the Pacific Ocean directly.



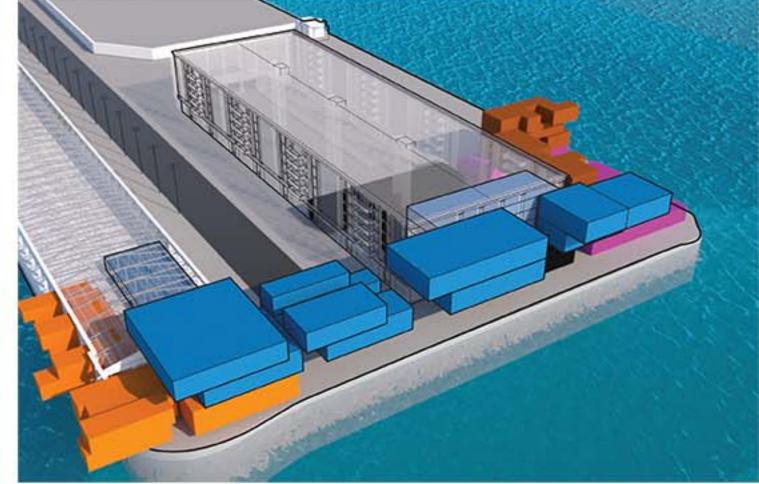
004. BOAT MAKING PROGRAM



005. TEMPORARY HOUSING

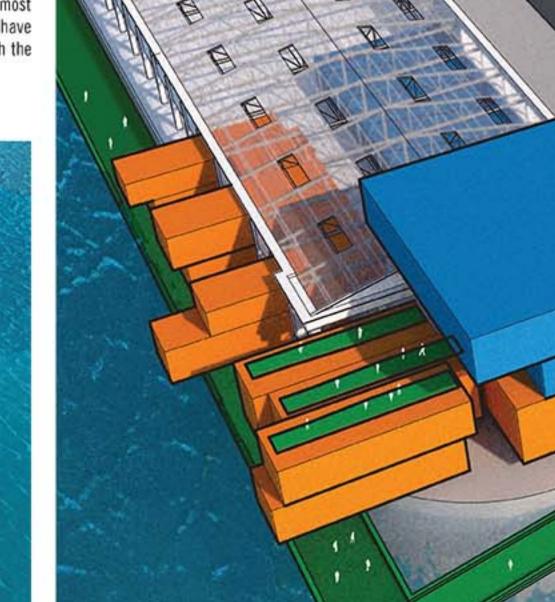
The boat making program is placed directly adjacent to the main channel, allowing for industrial visibility of the students and for interaction with the main channel.

Due to the direct interaction of the people using the boat making facility, temporary housing is placed directly adjacent/above this, allowing for maximum visibility of the ocean and the main channel but also for the opportunity of passive strategies to allow wind to enter the units.



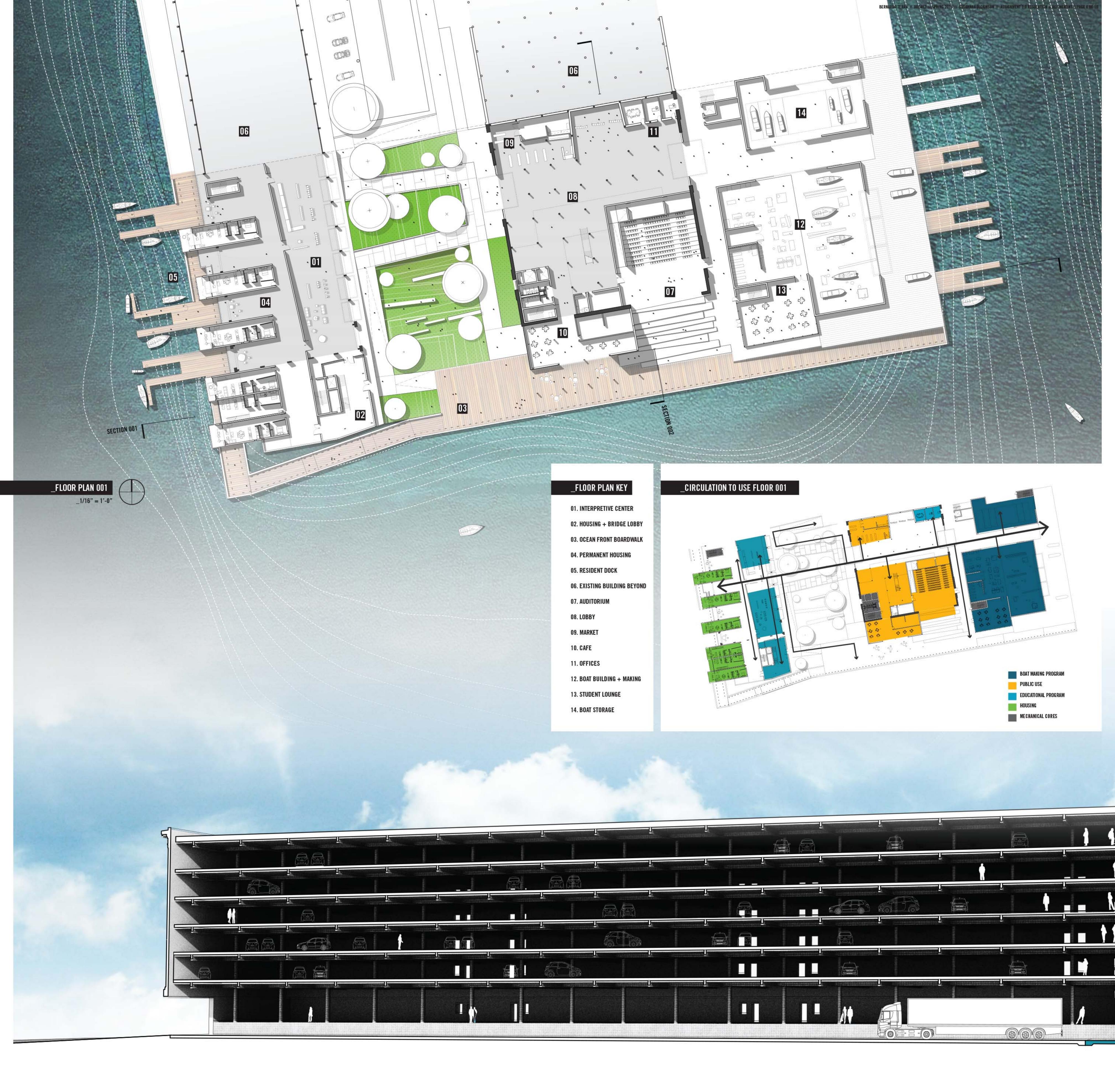
006. EDUCATION + RESEARCH PROGRAM

Education and Research programs connect both parts of the program, allowing for use from either side but also for allowing a maximum experience of the site, specifically the Pacific Ocean view.



007. PUBLIC INTEGRATION

The public is meant to inhabit the project at multiple levels, from the docks almost at ocean level to the outdoor viewing areas adjacent to the education and research rooms.









_INTERIOR WAREHOUSE NO. 001 // LIGHTWELL



