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3 KE ALA WALO

- Graduate course, Summer 2015, 6 weeks
- Group Members: Maile Nishimoto, Bea Clare Aglibot, Nohea Canon, & Alessandra Olsen

10 UKULELE HOUSE

- Graduate course, Fall 2014, 4 weeks
- Group Members: Maile Nishimoto, Nohea Canon, & Amber Takeuchi

16 WORK EXPERIENCE

- Convenience Store
- Medical Office Interior

7 BONAMIA TOWERS

- Graduate course, Fall 2014, 15weeks

13 BANYAN CENTER

- Undergraduate course, Fall 2013, 16 weeks

3

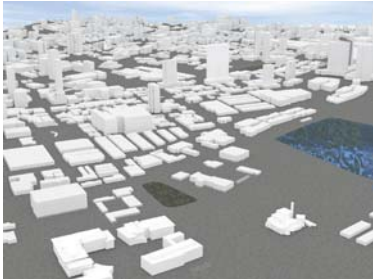
KE ALA WALO

With research of current trends projected 100 years into the future, our group found one of the biggest challenges will be sea level rise. As a group we came up with a scenario for Honolulu in 2115: Sea level rises six feet and causes the fresh water lens to also rise, resulting in flooding and marshland in Honolulu up to King Street, a shift in housing types, and a need for more transportation alternatives to vehicles. Each group member then chose a problem area to focus on.

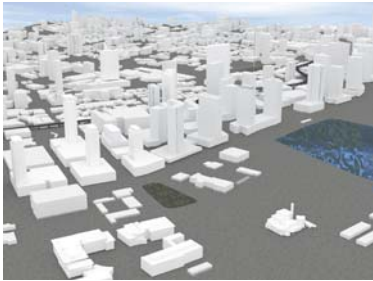
This portion of the project focuses on schools that will be affected by the inundation and about what kind of facility is needed for a school of the year 2115.



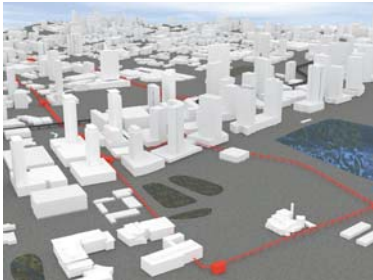
RESEARCH & FUTURE SCENARIOS



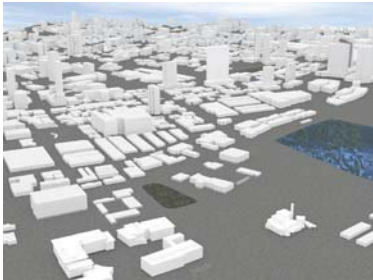
2015: Current Conditions of Kaka'ako, Honolulu



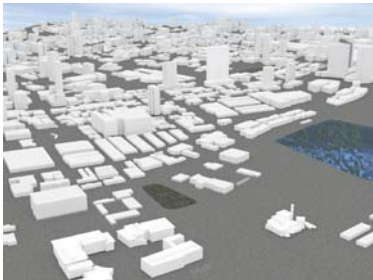
2040: Current planned development and Rail Transit completed



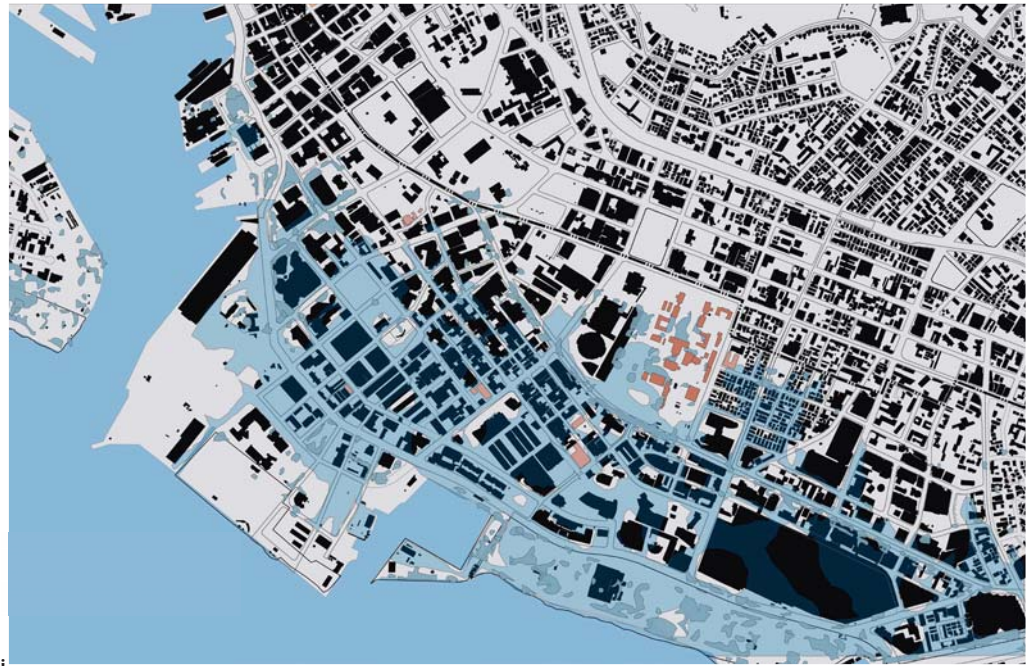
2065: Removal of old warehouses & addition of tram system



2090: Buildings that cannot afford to renovate to endure flooding and marshes are removed

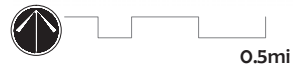


2115: Marshland up to King St, remaining buildings are adapted to changes.



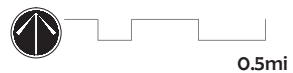
2015 Schools in Inundation Area

- McKinley High School
- Preschool

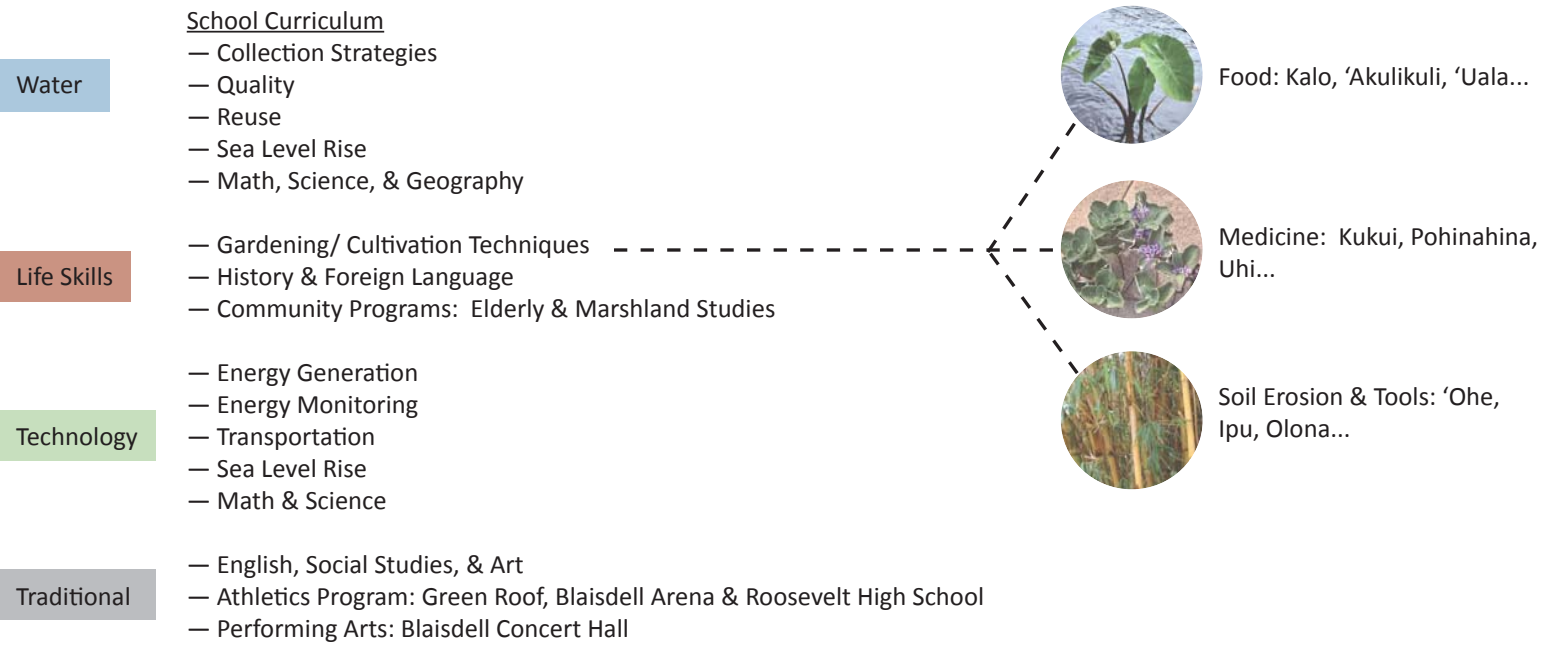


2115 Community Connections

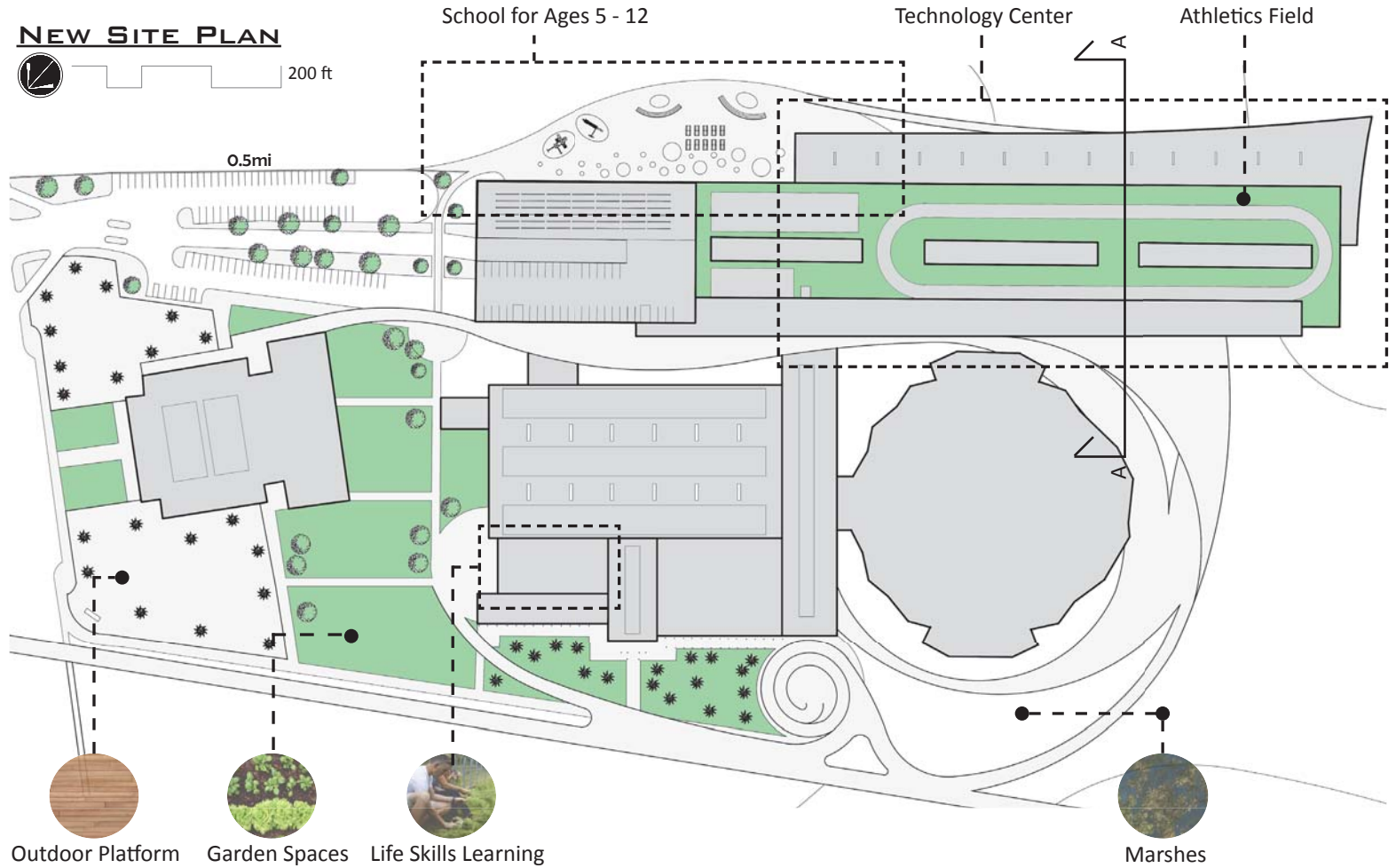
- Residential Areas
- School Programs



EXISTING BLAISDELL COMPLEX & NEW SCHOOL FACILITY



NEW SITE PLAN



Outdoor Platform

Garden Spaces

Life Skills Learning

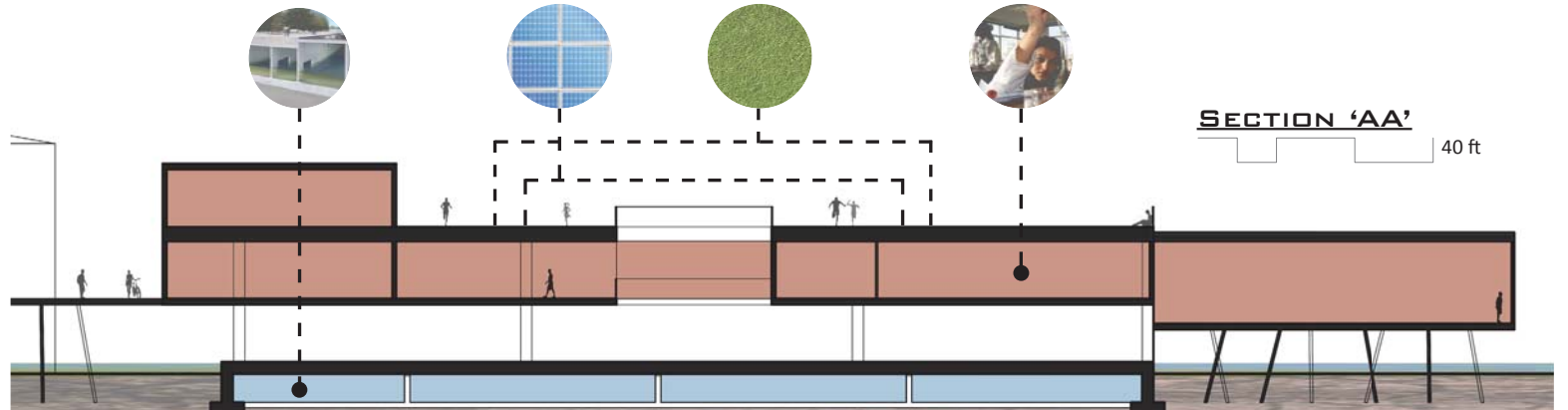
Marshes

Underground Cistern

Solar Energy

Athletics Field

Technology Center



SECTION 'AA'

40 ft

7

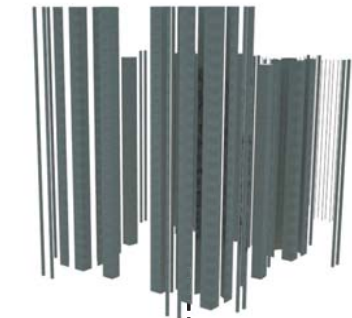
BONAMIA TOWERS

Residential high-rise towers are currently in the planning process or construction phase for the Kaka'ako area of Honolulu. This project seeks out a new way to design residential towers that take advantage of the tropical climate, bring a sense of community, and is affordable.

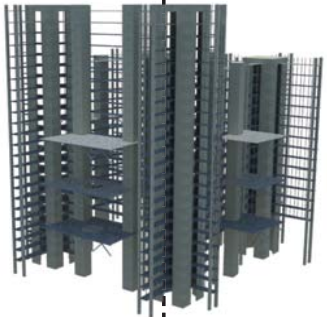
Bonamia towers is a breathable building, maximizing on ventilation through passive cooling strategies, a sliding panel wall system, and a "green curtain". A sense of community is instilled with open spaces for parties or meetings and community gardens on every four floors. Affordability is emphasized in the buyer's choice of materials and rooms size.



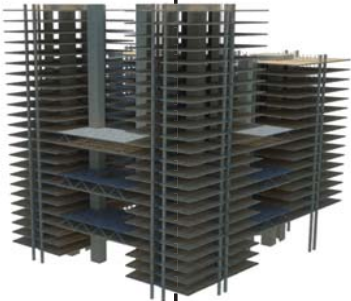
CONCEPT & STRUCTURE



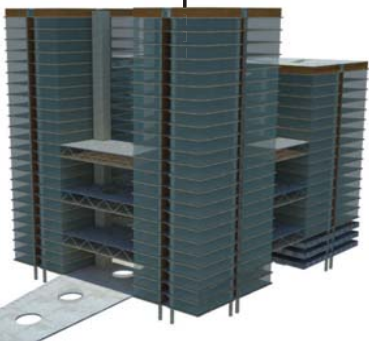
Concrete Column & Core



Steel Frame & Metal Grating

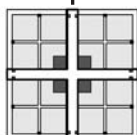
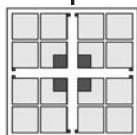
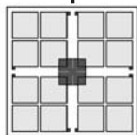
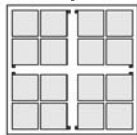
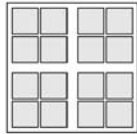
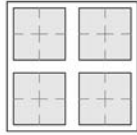
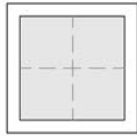


Wood Floor Plates



Panel System & Green Curtain

Form Finding



View from Residential Unit

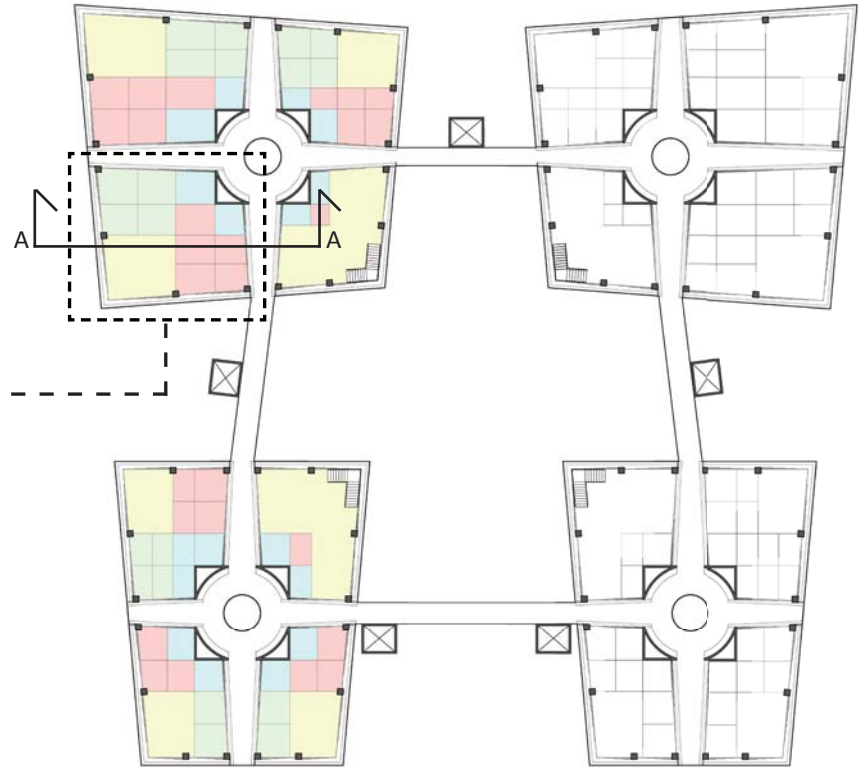
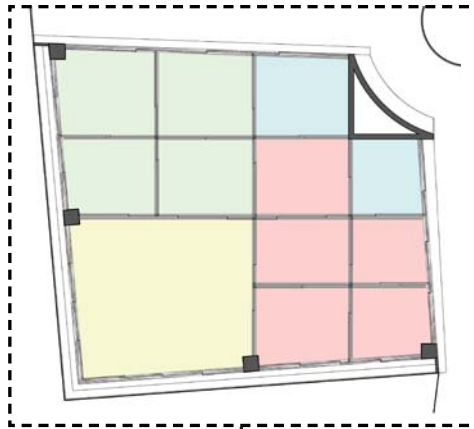


Ground Floor Park

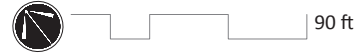
BUILDING FLOOR PLANS & SECTION

Panel Track System

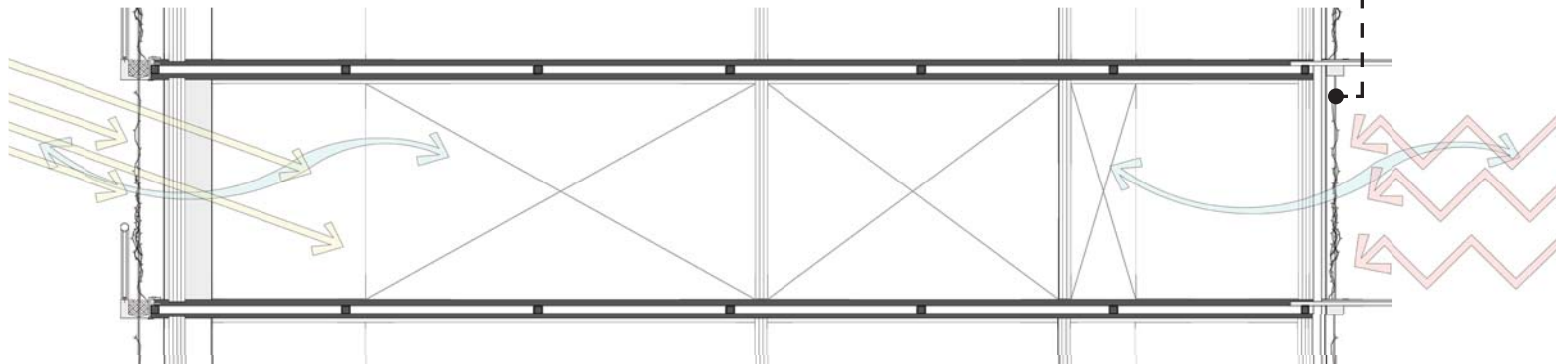
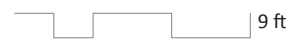
- Optional Rooms
- Living Room
- Bedroom Options
- Kitchen, Bath, Laundry



Typical Floor Plan



Unit Section 'AA'



10

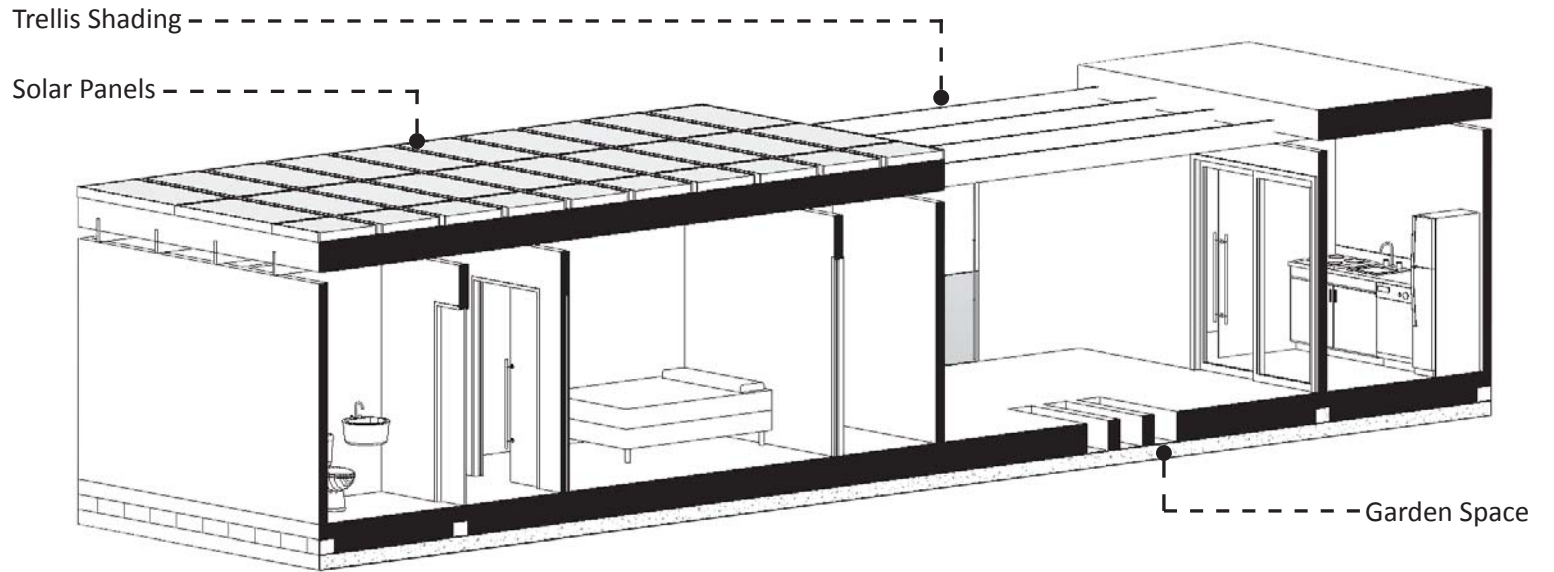
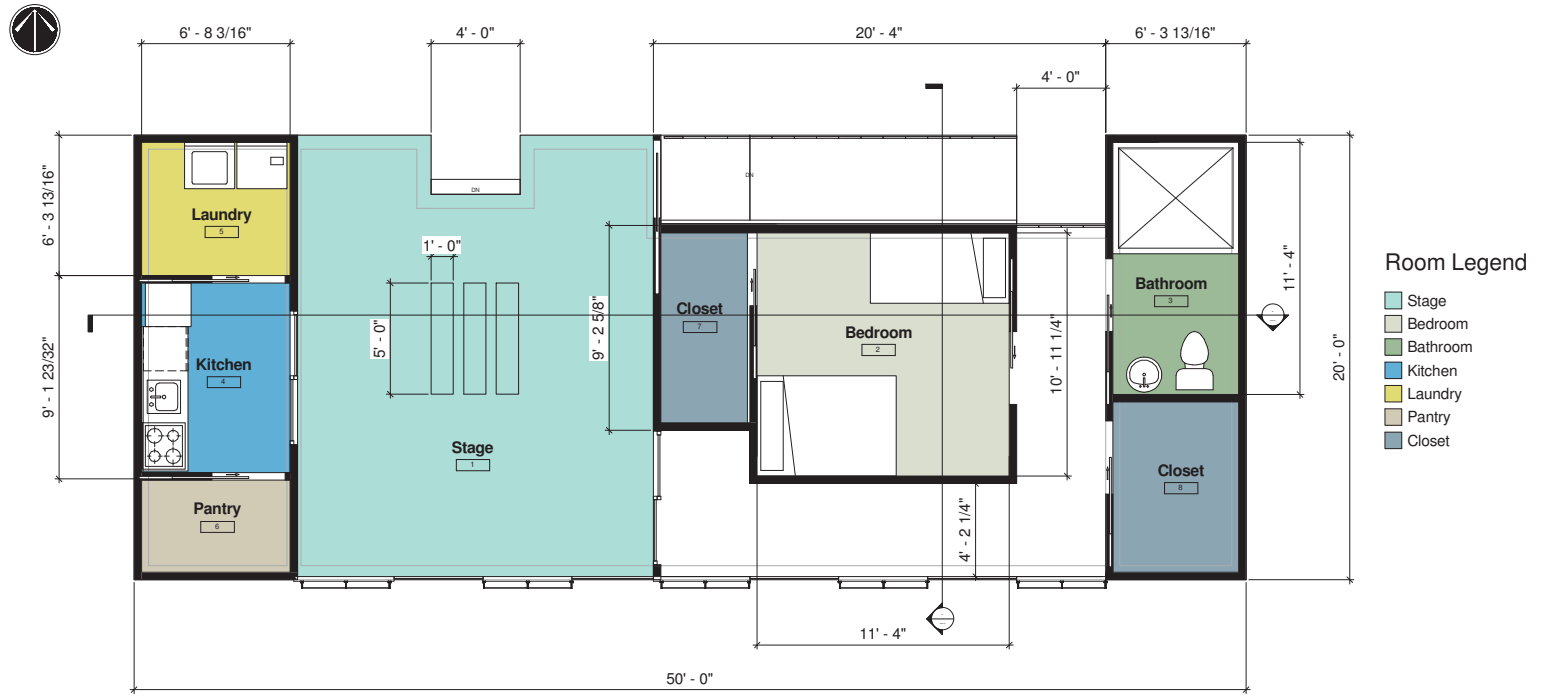
UKULELE HOUSE

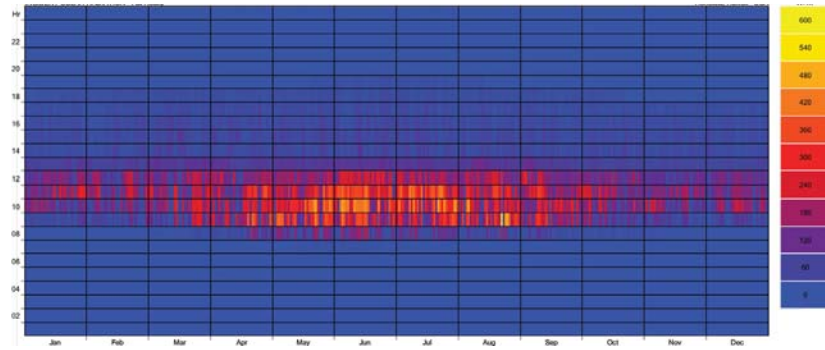
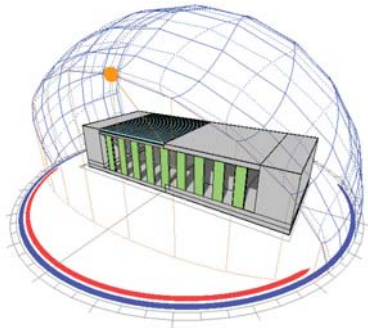
The purpose of the Ukulele House is to demonstrate a variety of skills in different programs. Programs used for this project include: Revit, Rhino, Photoshop, Illustrator, and Ecotect.

The Ukulele House is ADA accessible, acquires most of its electricity through sun panels on the roof, and was used for a shading analysis to test the effectiveness of the design.

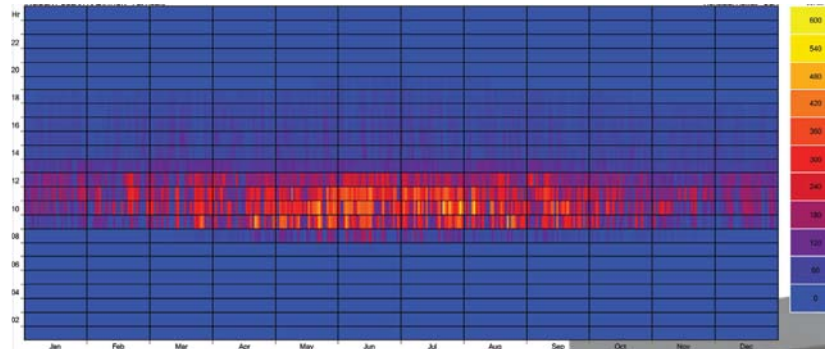
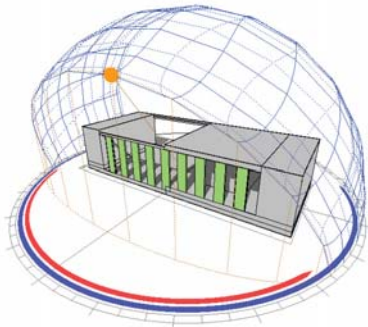


BUILDING FLOOR PLANS & SECTION

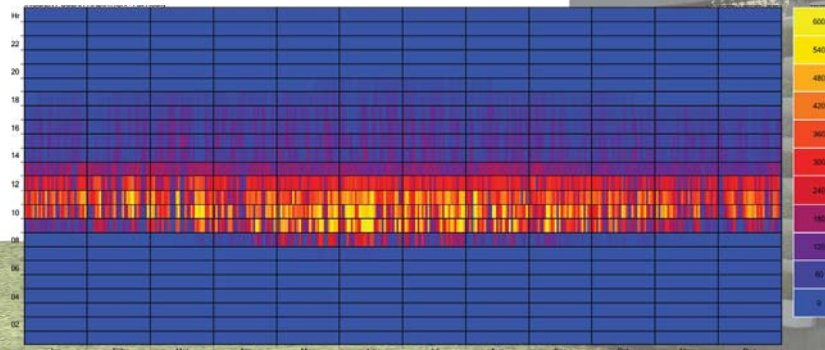
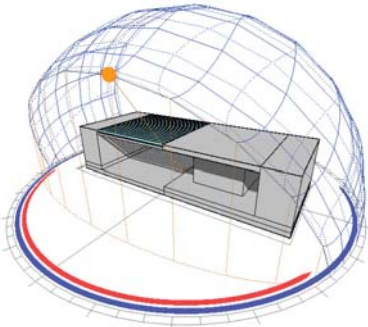




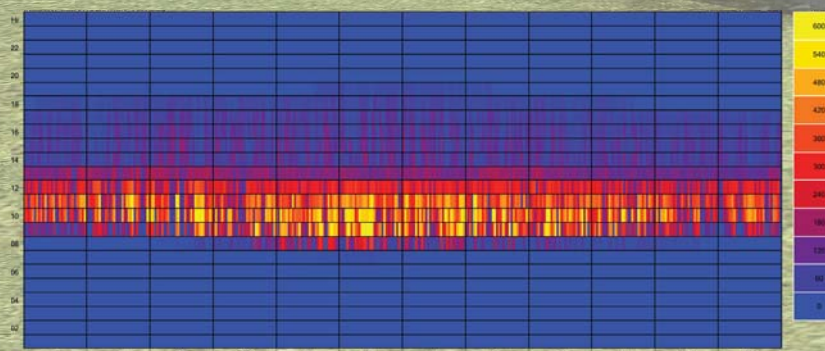
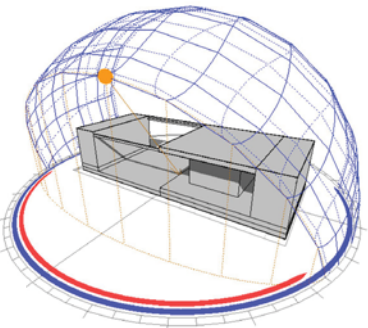
All Shading Devices



Vertical Garden Shading Only



Trellis Shading Only



No Shading Devices

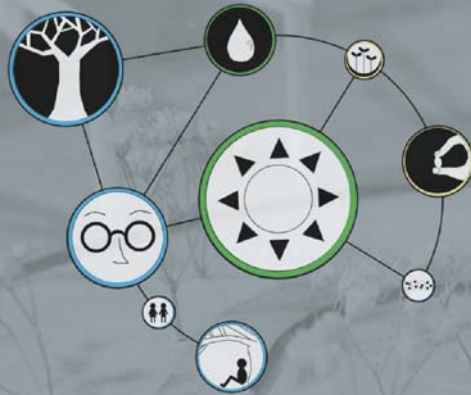


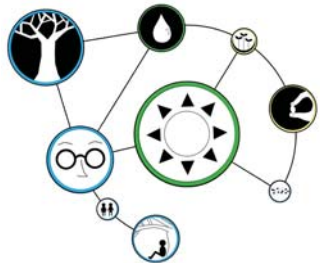
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BANYAN CENTER

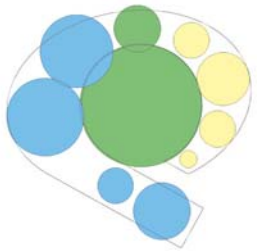
Starting with the concept of MUCK as the fuel for time travel, a team of Botanists were sent back in time to bring back extinct native plant species. The project and the Banyan Center itself were developed around the idea of the importance of historical aspects in modern time and the opportunity to become self-sufficient in food by learning about different plant species.

The first two pages show the progress and development in choosing a site and designing the Banyan Center through precedent studies, user profiles, diagrams, and user experience studies.

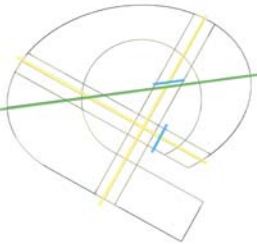




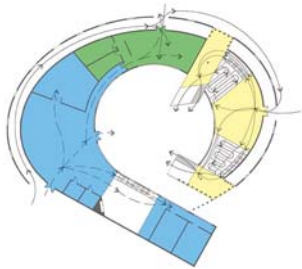
Adjacency Diagram



Private vs. Public: Bubble Diagram



Circulation Axis

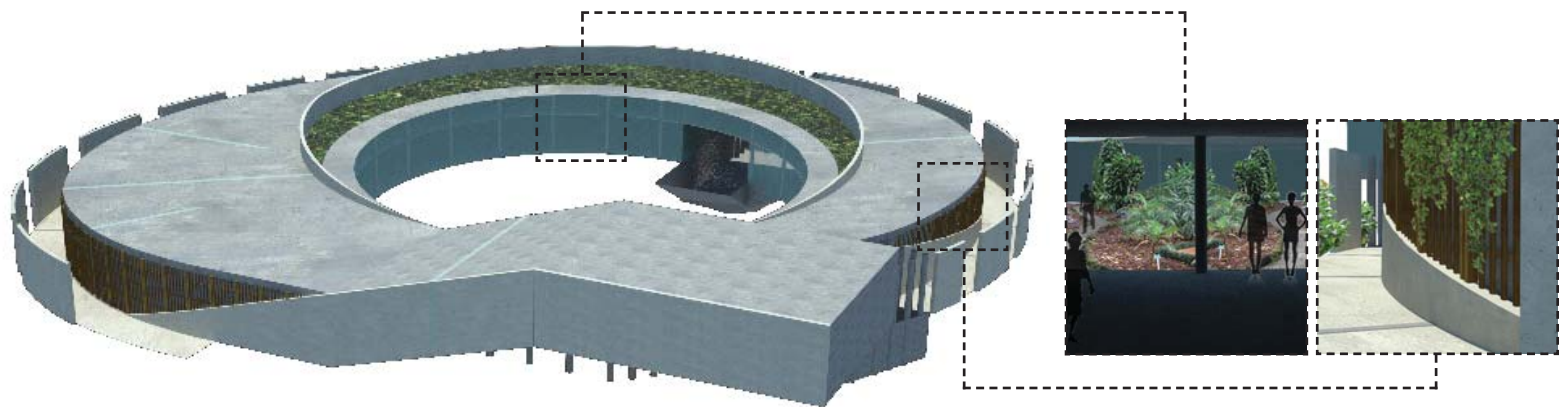
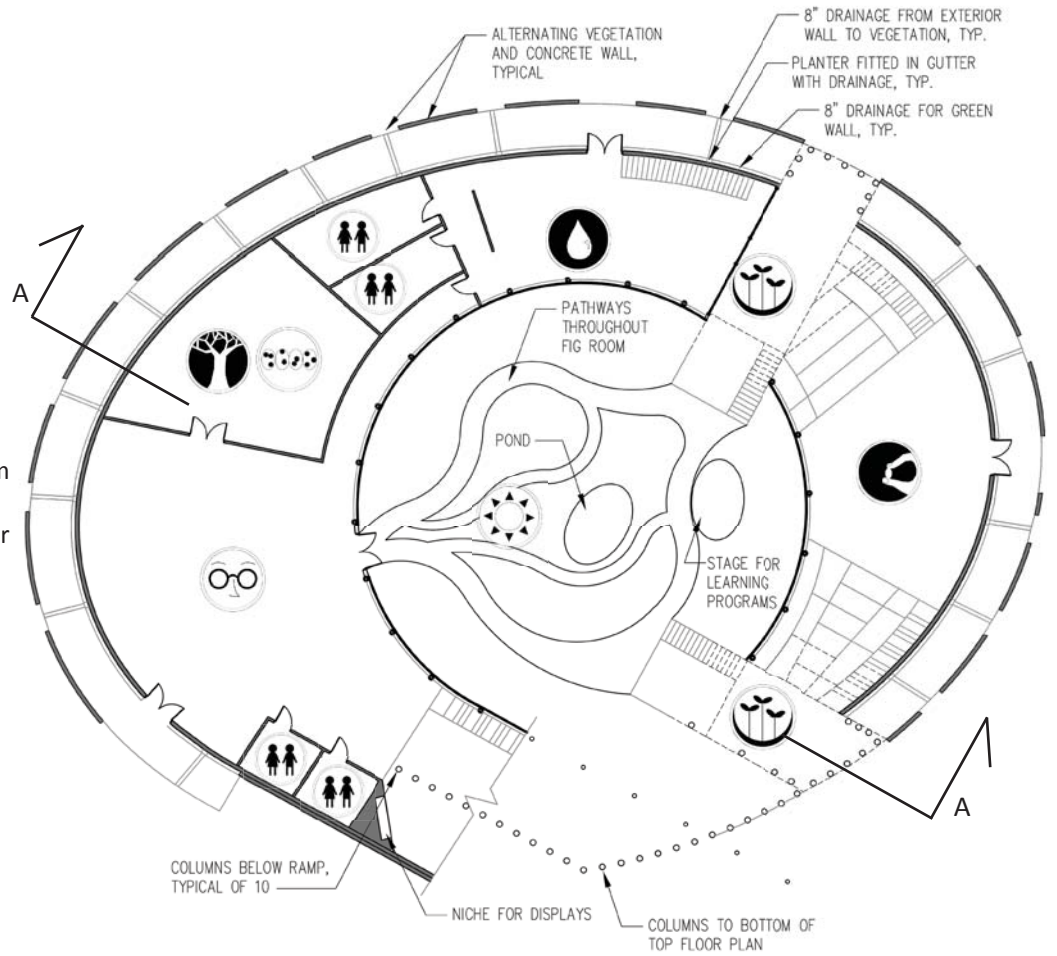


Private v.s Public: Floor Plan

CONCEPT & FLOOR PLAN

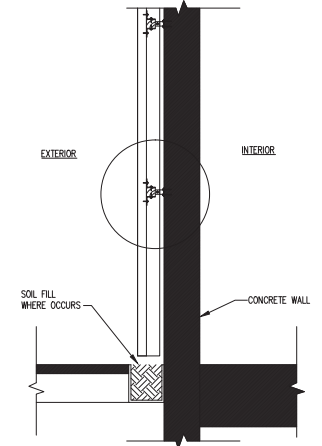
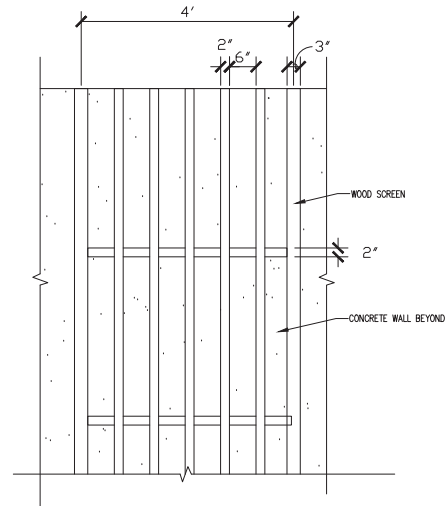
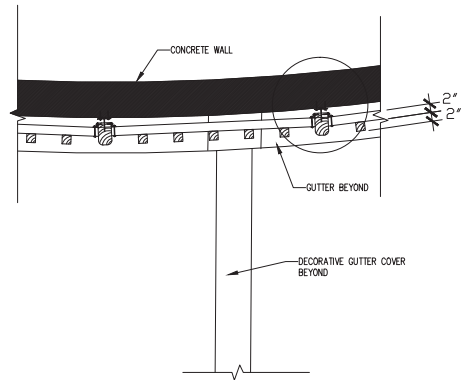
Room Legend

- Fig Room – Plant Nursery
- Gallery – Historical elements display
- Phloem Gathering – Research Lab
- Aquifer – Break Room
- Xylem Room – Core and building system
- Phloem Resting – Lounge rooms for botanists
- Chloroplast – Storage
- Sprout Room – Lobby to Fig Room



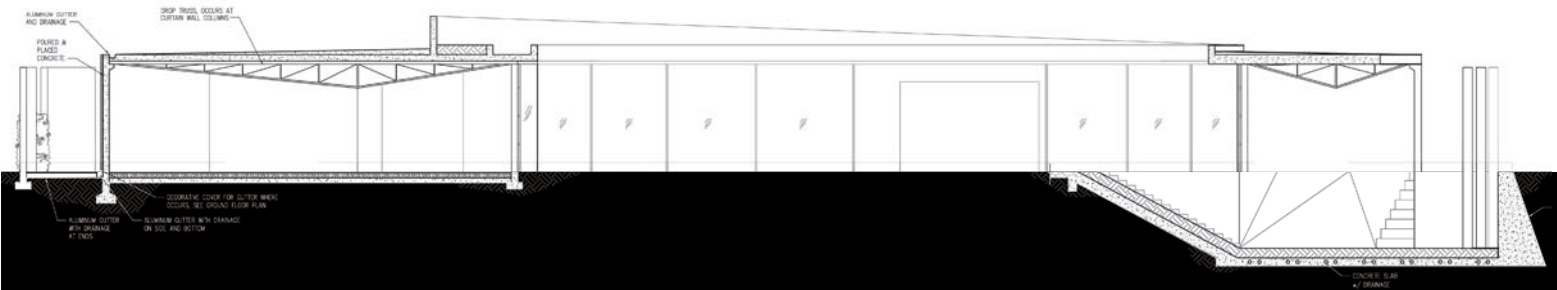
Exterior Wood Screen Facade Details

36"



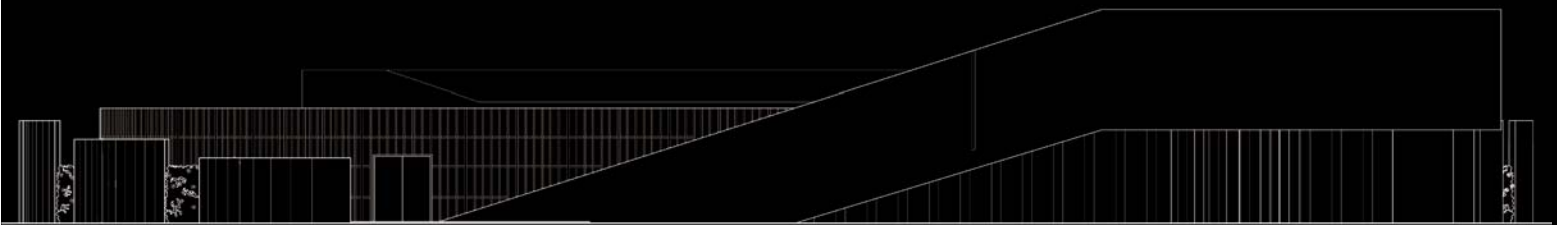
Section 'AA'

35'



South-West Elevation

35'



16

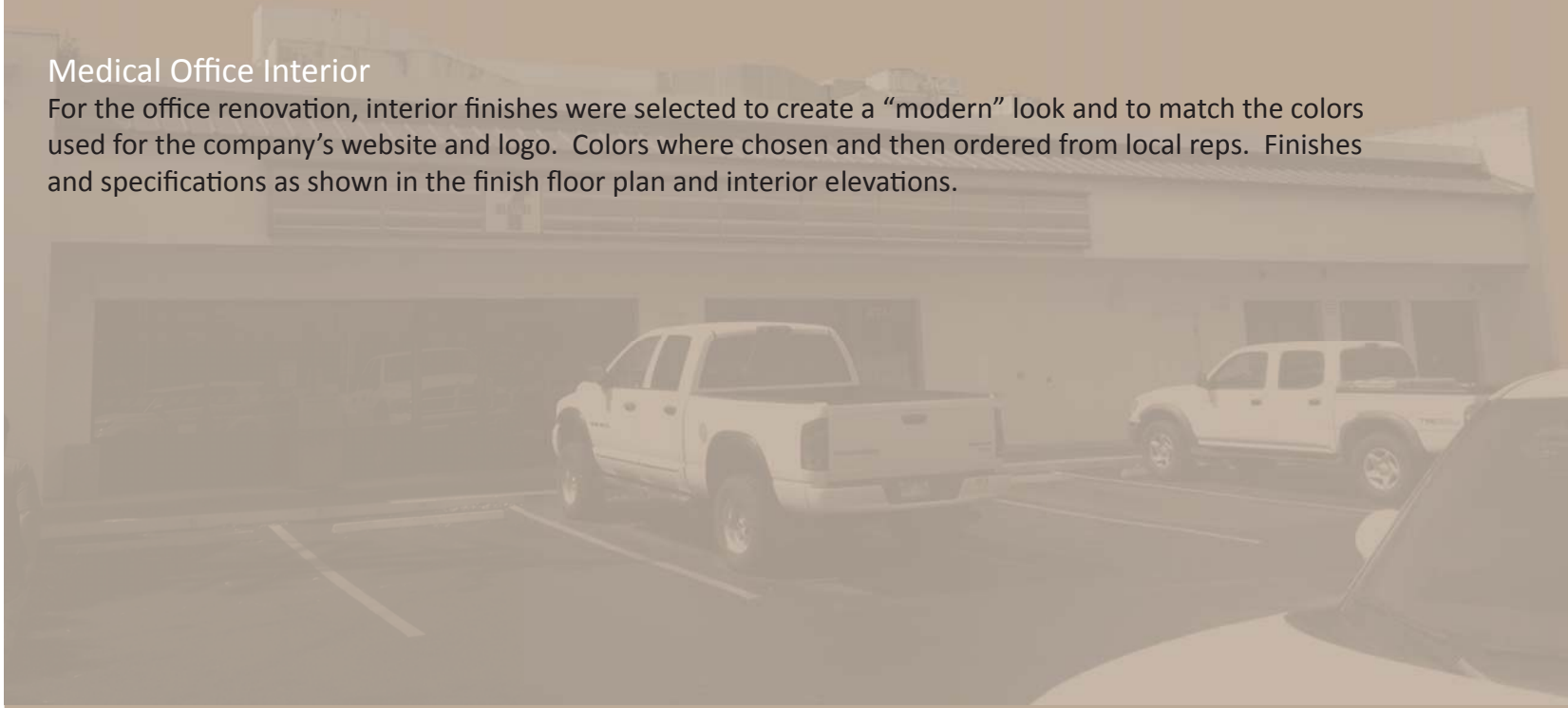
WORK EXPERIENCE

Convenience Store

Assisting in the renovation of several convenience stores on O'ahu, the process allows for an opportunity to create schematic drawings, construction documents, wall and other details using AutoCAD. The process begins with field measurements of the existing space and then later coordination with electrical engineers, mechanical engineers, and contractors.

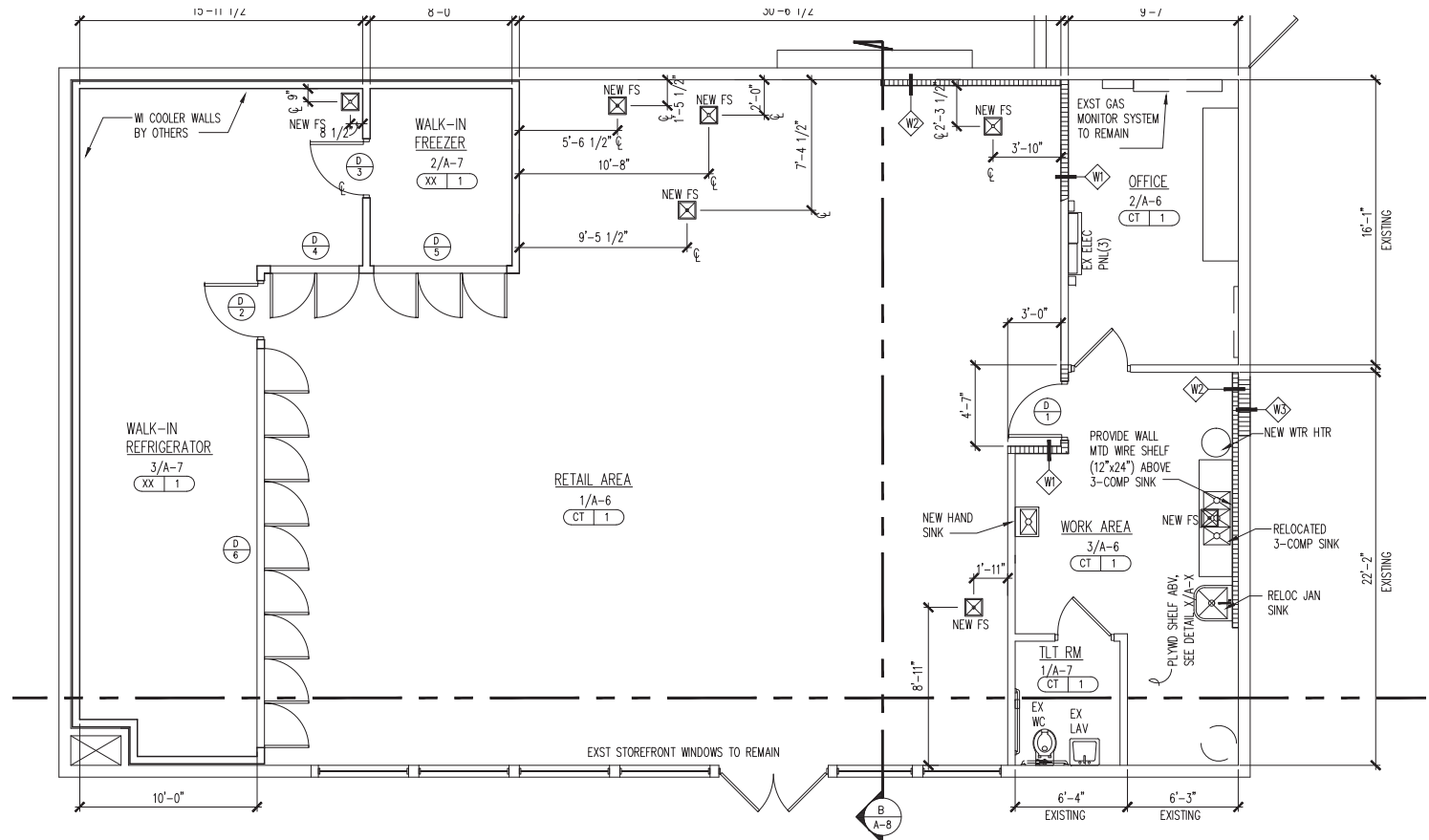
Medical Office Interior

For the office renovation, interior finishes were selected to create a "modern" look and to match the colors used for the company's website and logo. Colors were chosen and then ordered from local reps. Finishes and specifications as shown in the finish floor plan and interior elevations.

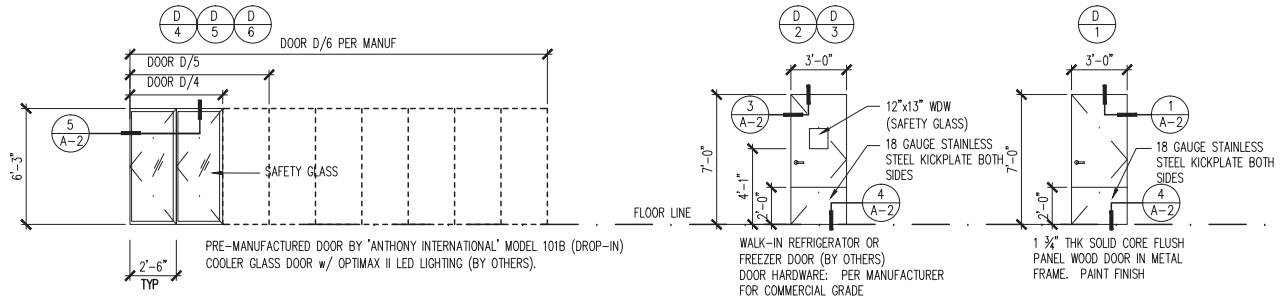


CONVENIENCE STORE

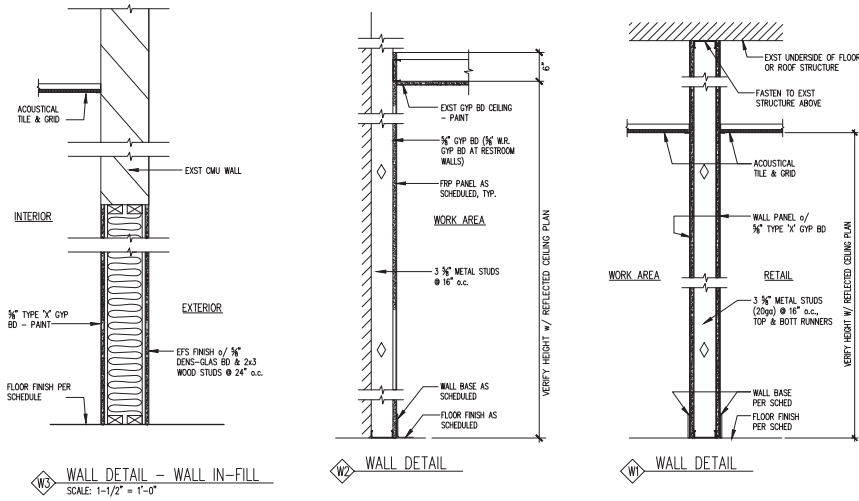
New Floor Plan



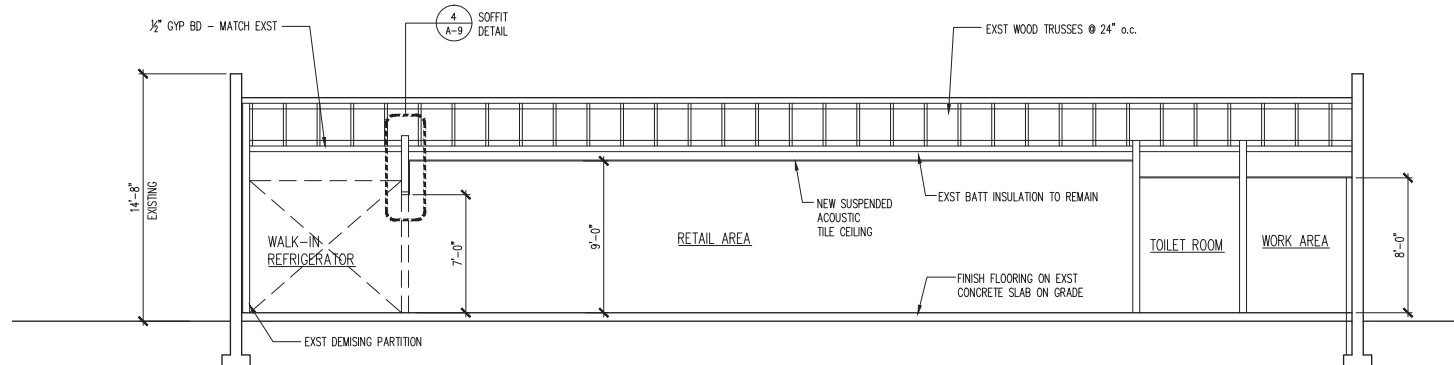
Door Types



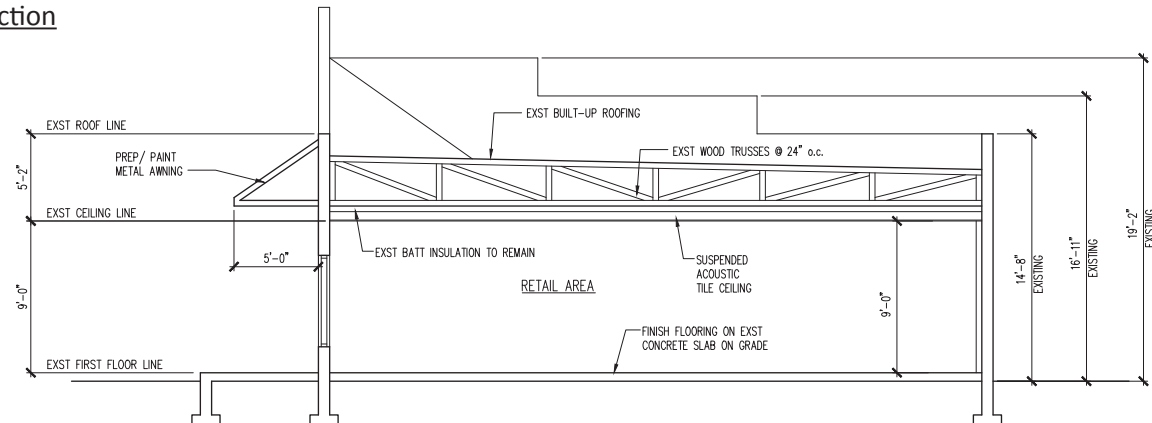
Wall Details



Latitudinal Section

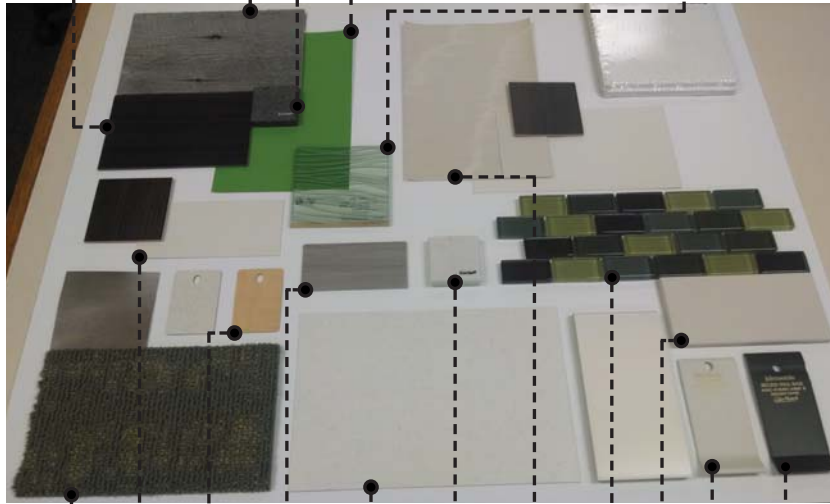


Cross Section

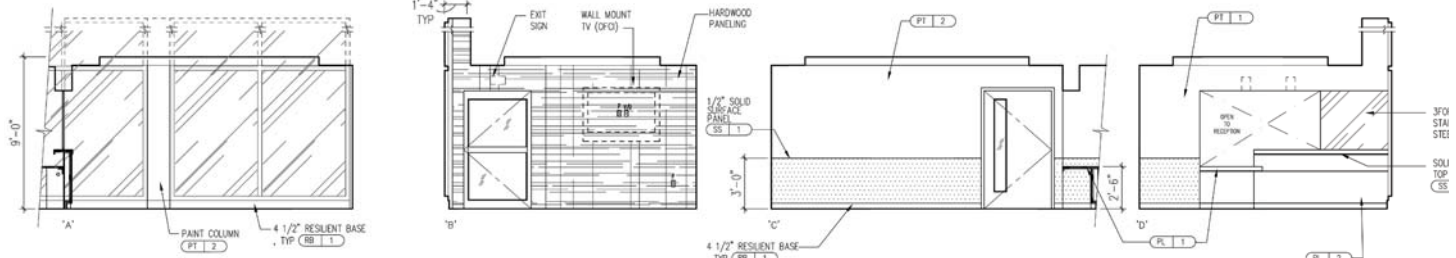
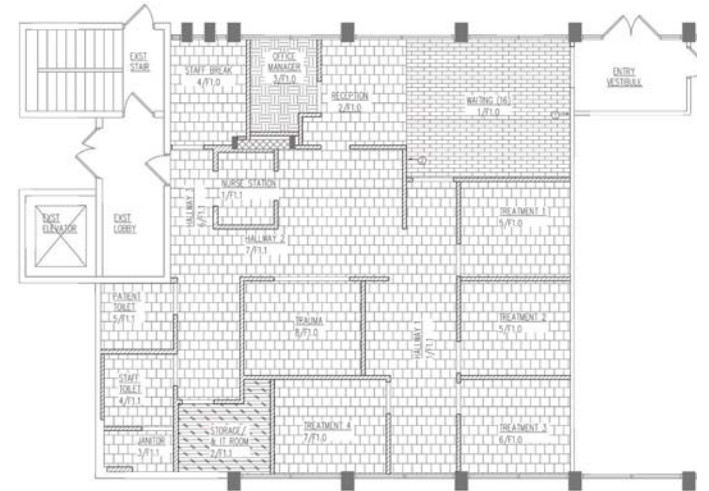


MEDICAL OFFICE INTERIOR

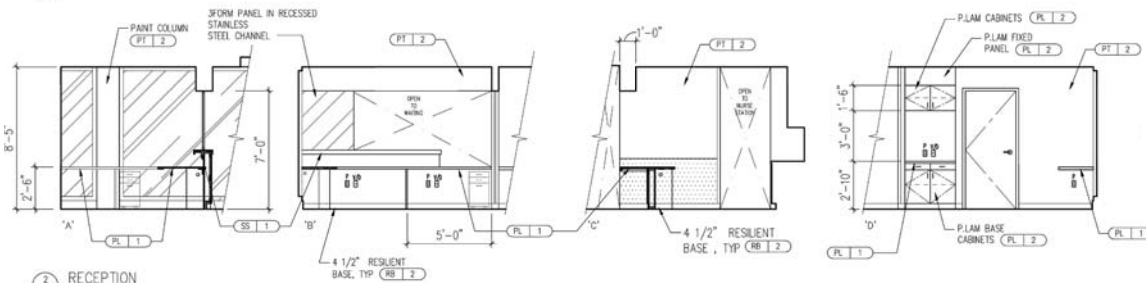
LVT-1 Wood Accent Wall SS-1 PT-1 Decorative Glass Panel



CT-1 PT-1 PL-2 VCT-1 SHT-1 SS-2 WC-1 T-2 T-1 RB-2 RB-1



161 WAITING (16)



162 RECEPTION

