

/nat·tha·kan·ya/

flowfillment urbanism

Reformatting Land
Advanced Studio: Spring 2018
School: California College of the Arts
Professor: Neeraj Bhatia
Partner: Namhi Kwun

We nominated San Leandro bay in California which in coming years urban challenges facing rising sea levels and rising house prices. Our project, Flowfillment urbanism, is a fulfillment center that brings opportunities to create domesticated logistic building. We examined different states of land and water to consider how ecological and logistic center find synergetic relationships to coexist and ideally become better by being each other.

To domesticate logistic building first we managed the height into 15 feet by understanding capacity of forklift and the height of the shelves. Usually normal logistic buildings are 25 to 30 feet tall due to the shelving heights. The building becomes just a staging ground for the shelves to move vertically. The shelves can hang from the building, and does not need to situate on the ground level. Therefore, ecology could work throughout the time. The middle layer which is logistical layer that is more organized into like little city blocks. The top layer is expanded and built upon the structure of logistic building. Some part of the building is storage for shelving below, and the main system of that is providing diffused light from omnidirectional access. Housings are not only for people working here and living here, but also this is open to anyone who wants to rent. The trade-offs are affordable rent. The main reason for that is because you are living on the ground that has been produced by larger company and leasing some of your space for shelving below.

It brings opportunity because buildings are situated off from the ground level, ecology could work overtime, and more publics and residents could animate with ecology at the ground floor. Also, the building became smaller and takes advantages with underlayer by being off the ground, now shelves are hang below from logistic level. The trade offs are affordable housing and created cultural moments like buying cheaper goods without creating more carbon footprints and creates work opportunity. Lastly, it changes the conversation by being aggressively putting all together up against local ecology. It is showing global capitalism is putting value towards environmental system.

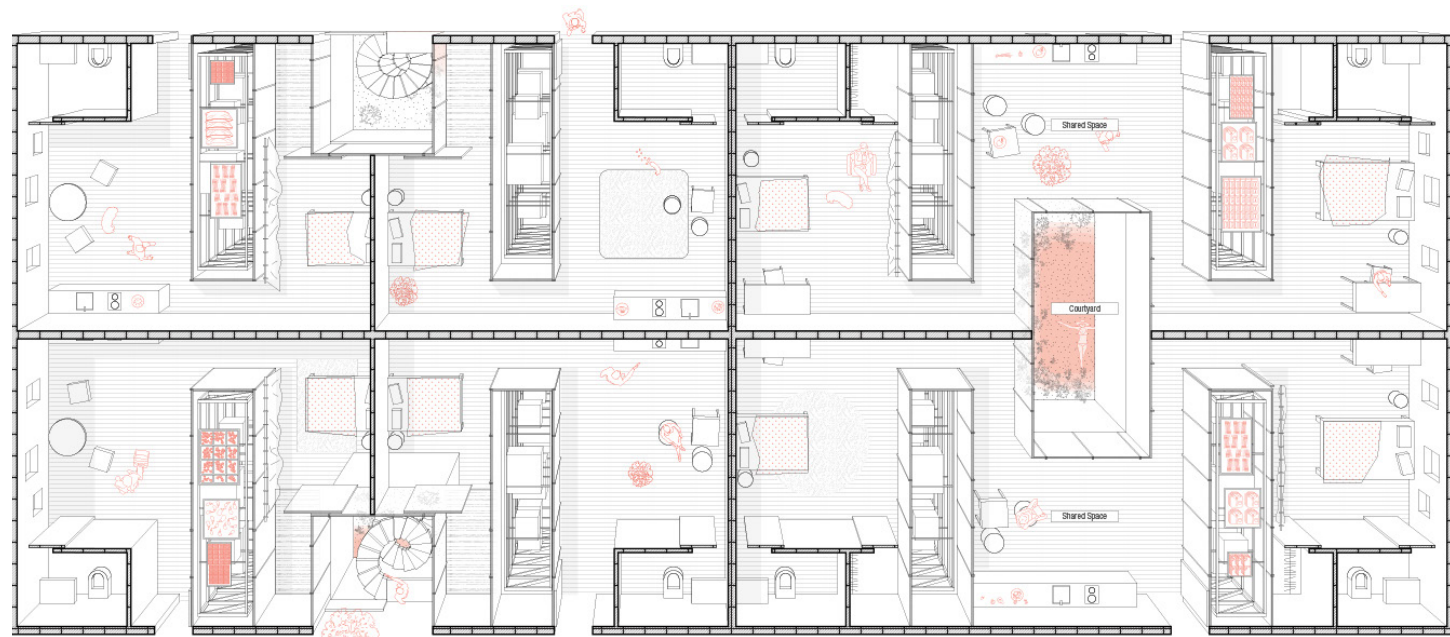
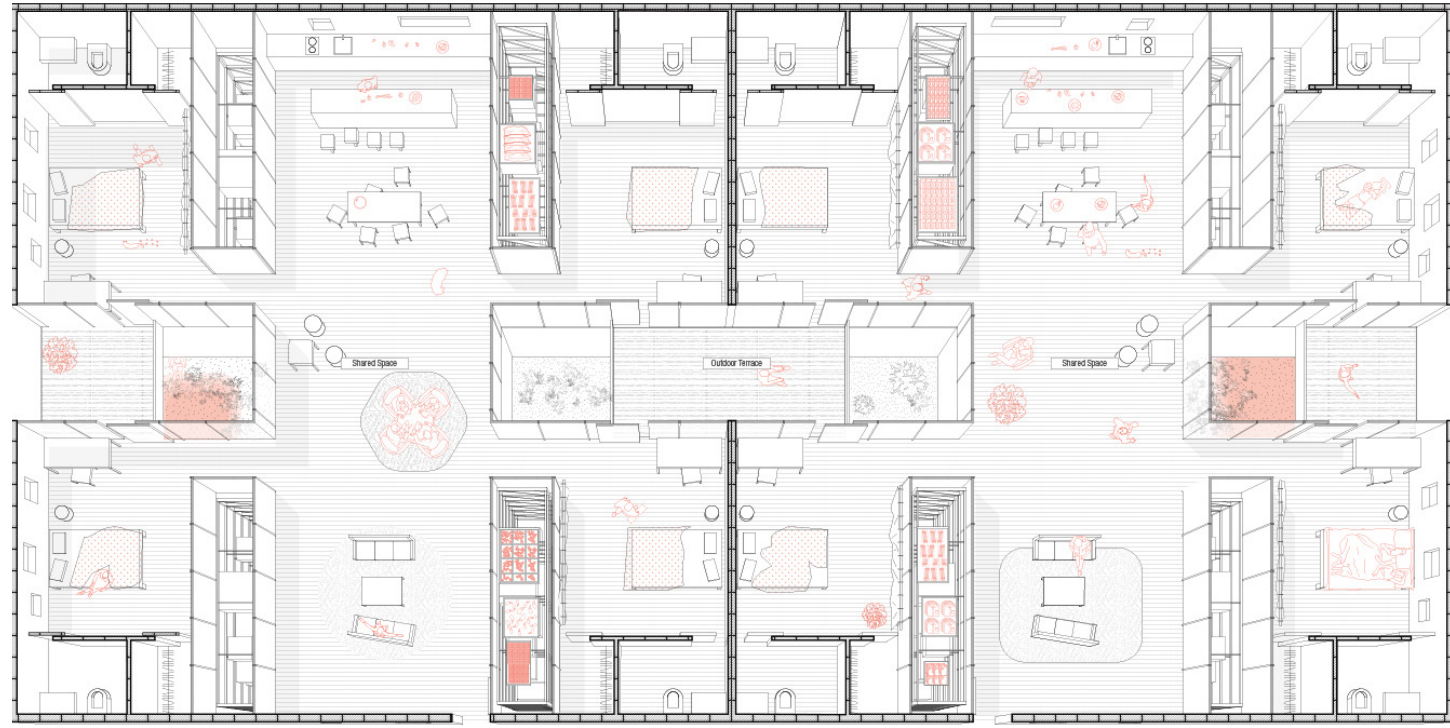




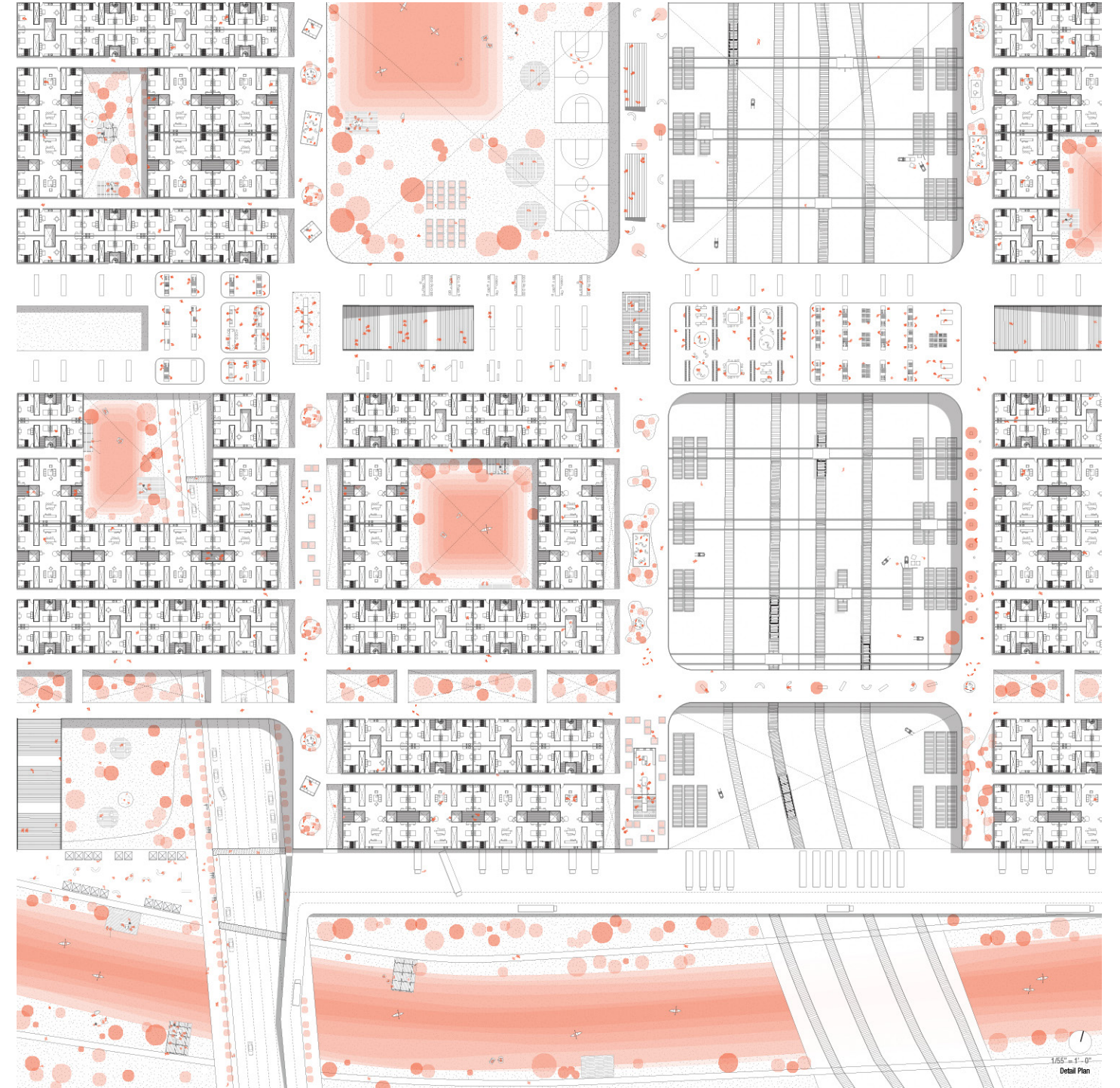
master plan: ground level



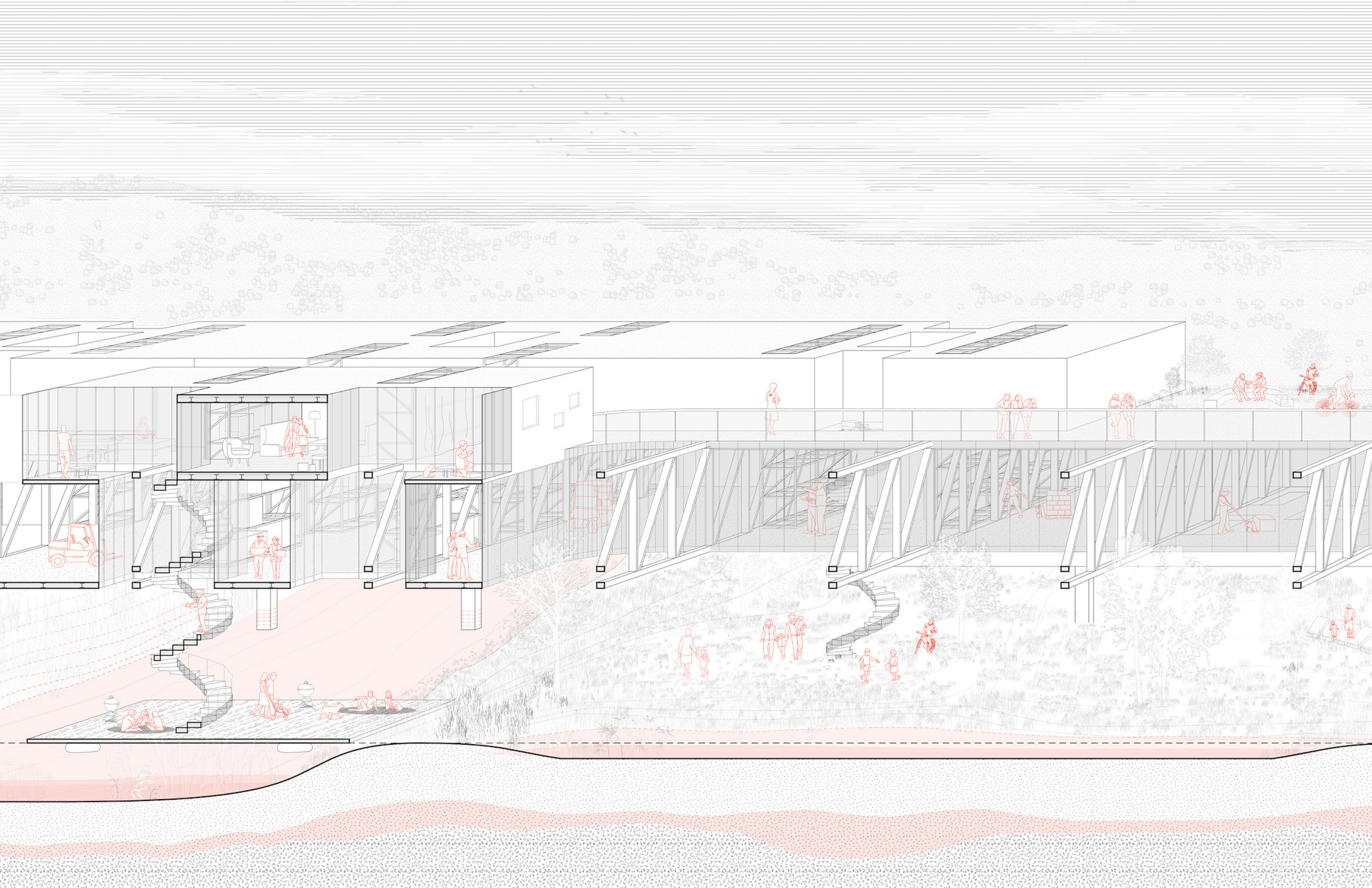
master plan: top level

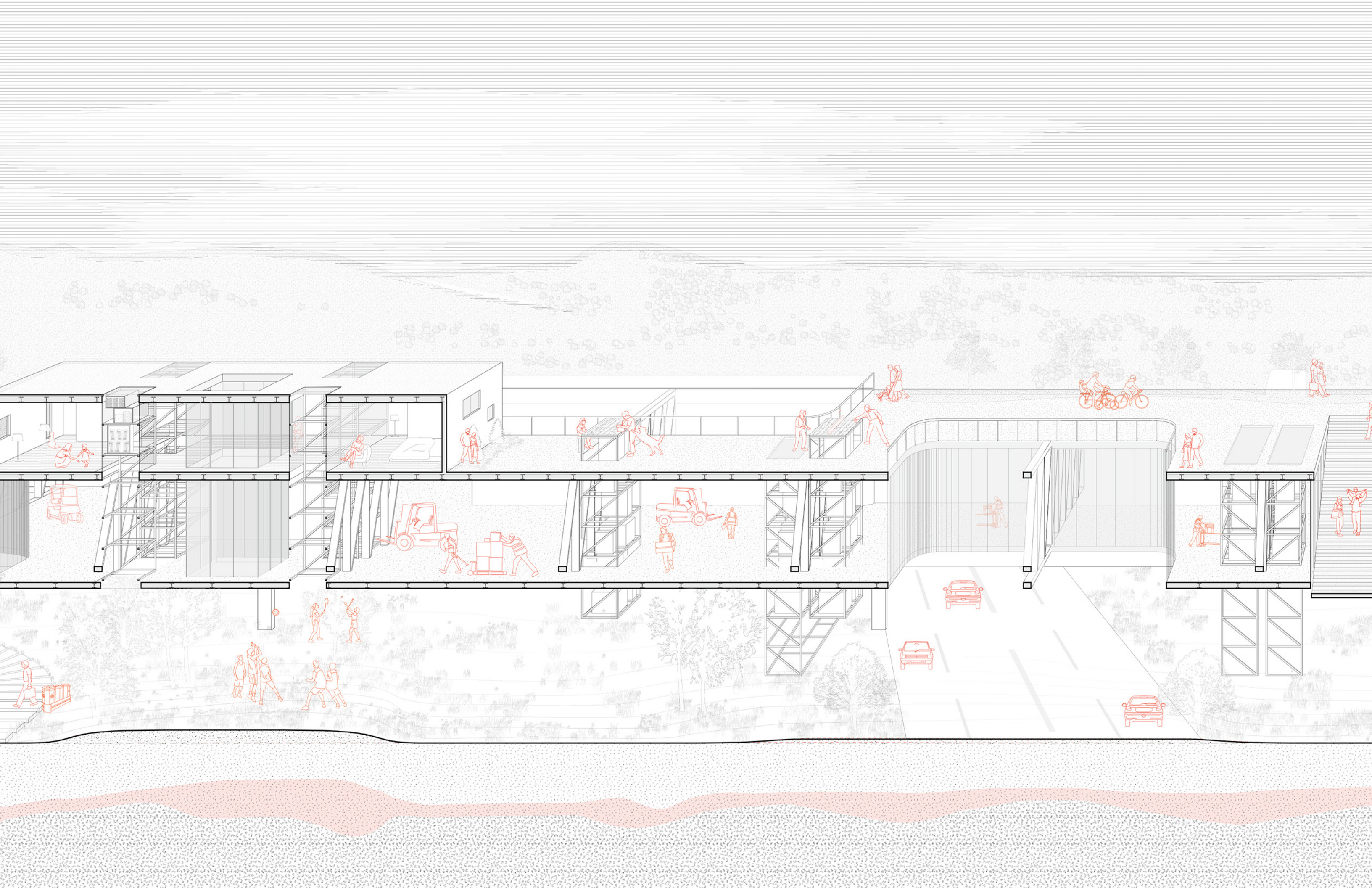


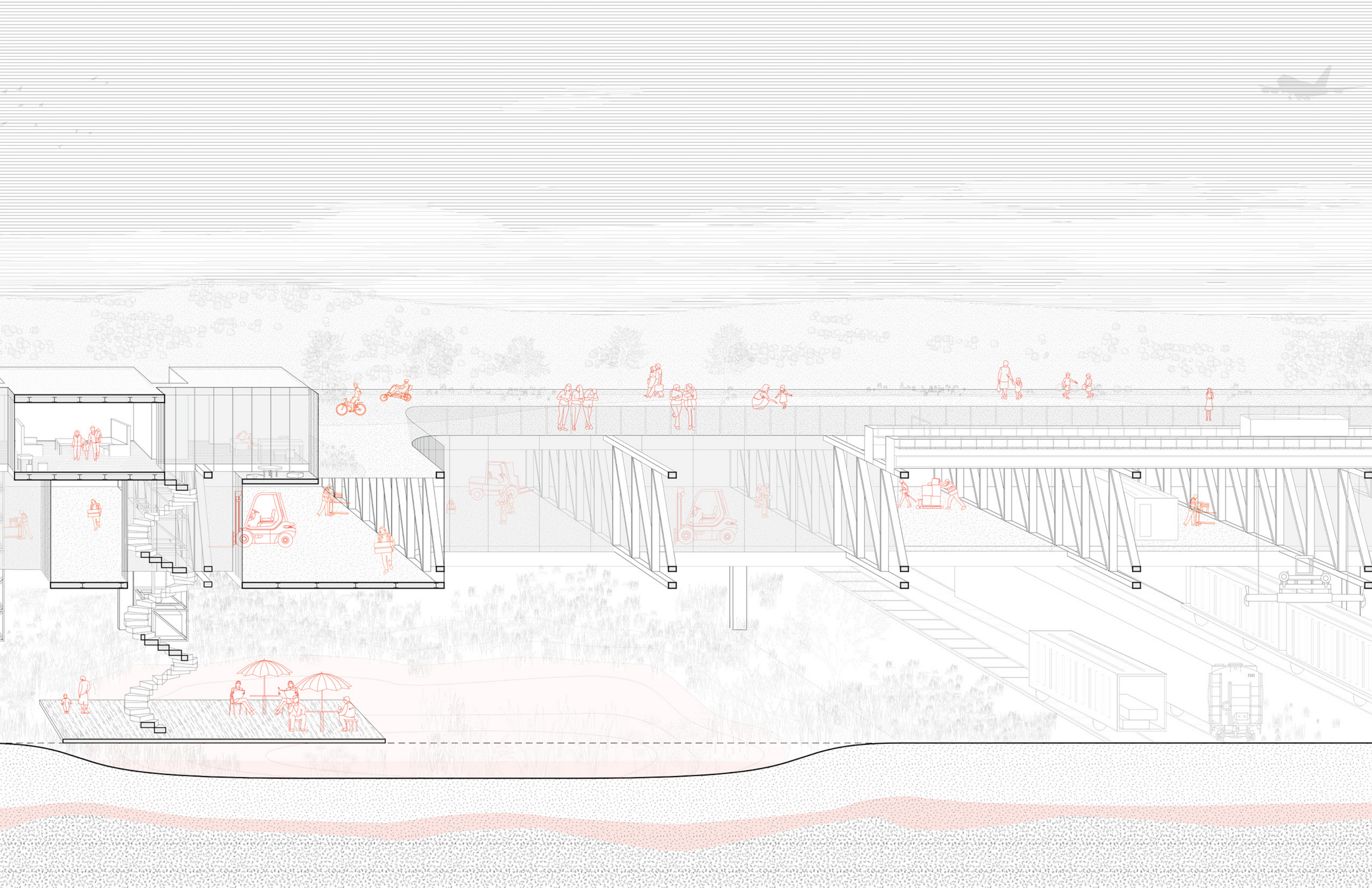
until typologies



detail plan







a reason to stay

Known Unknowns: Scales of Inclusion

Advanced Studio: Fall 2017

School: California College of the Arts

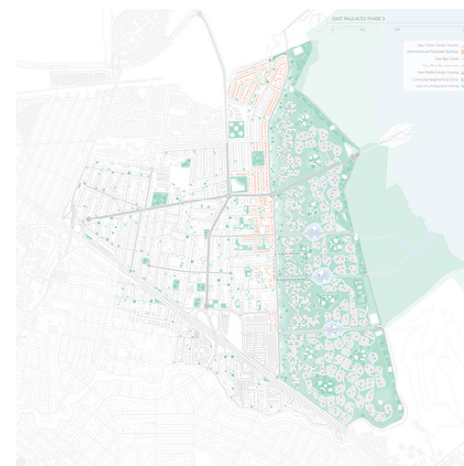
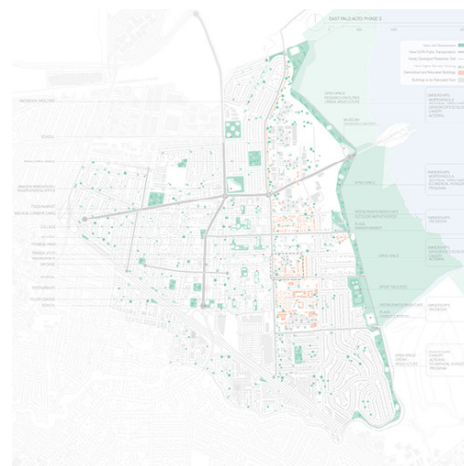
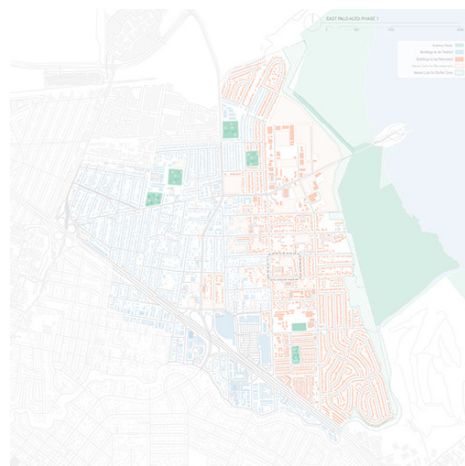
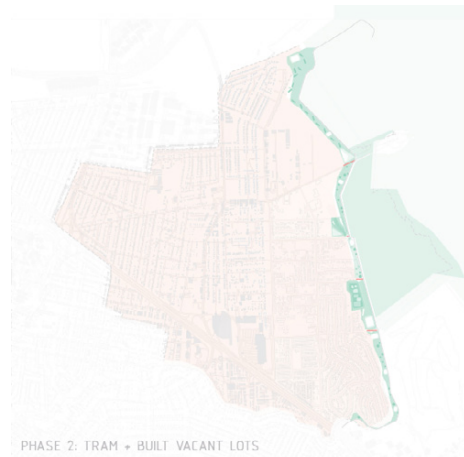
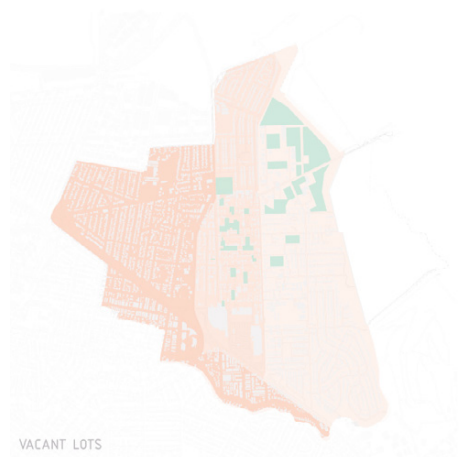
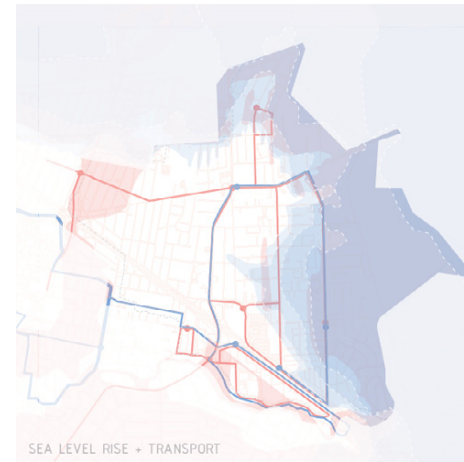
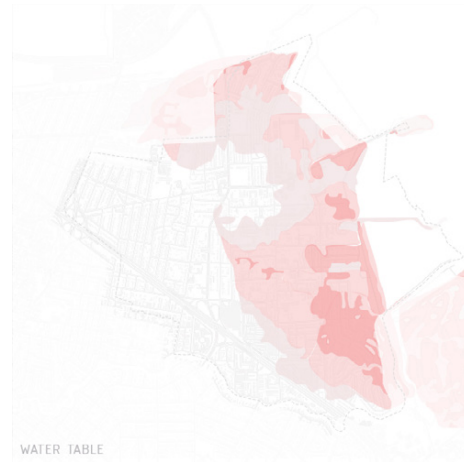
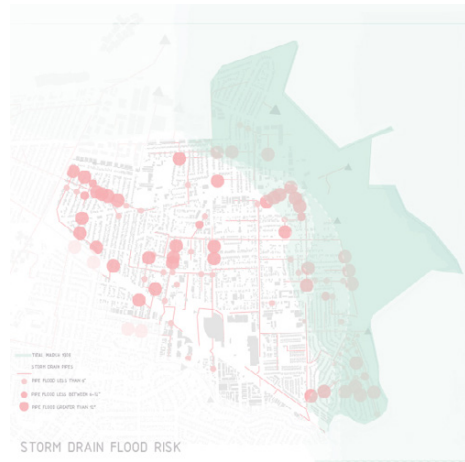
Professor: Janette Kim

Partners: Mia Candelaria and Cassady Kenney

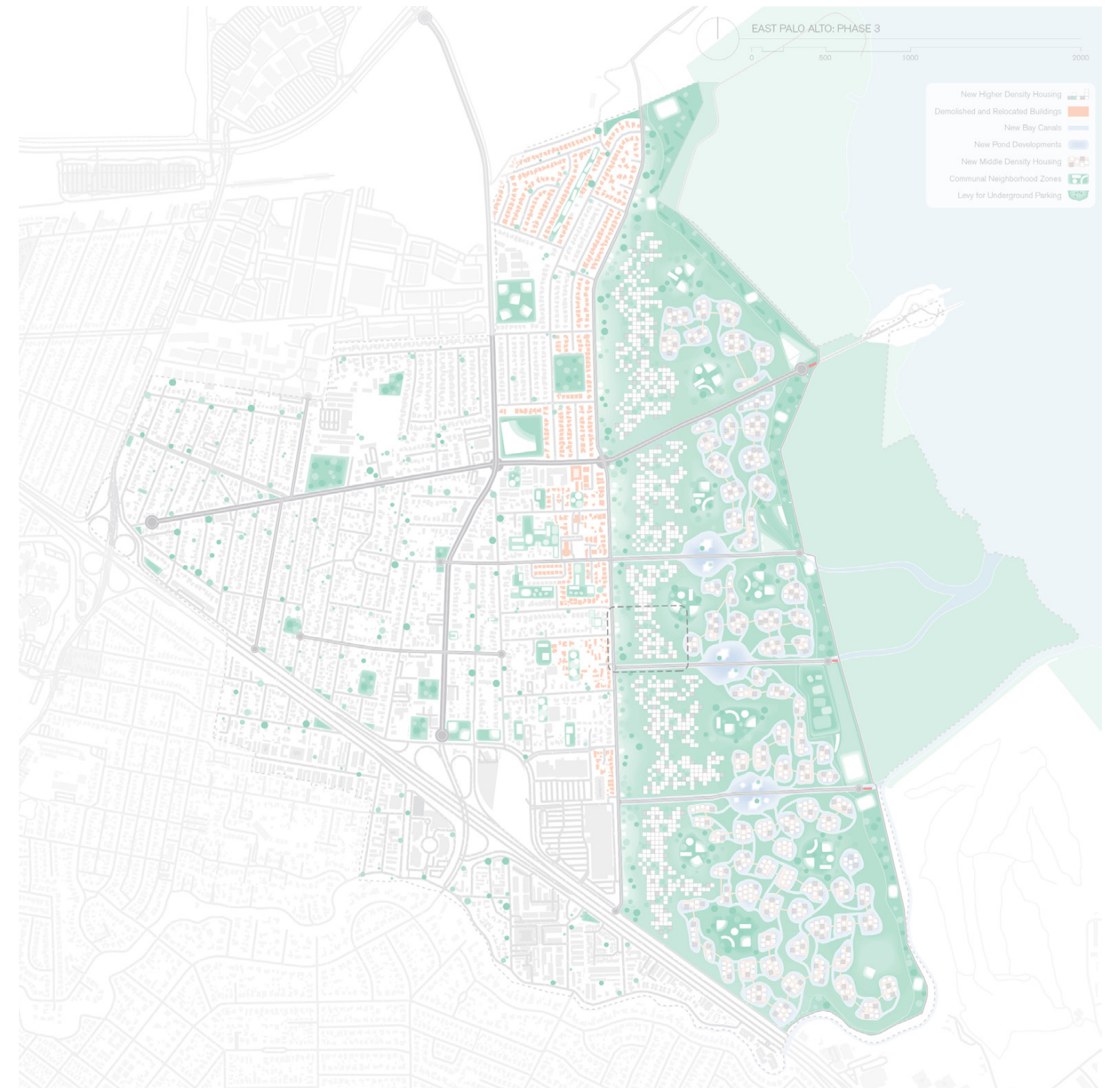
When we visited East Palo Alto, the most prominent aspect of the city that struck us was its liveliness. The sense of community was energetic and omnipresent. Bouncy houses popped up on every street, kids played outdoors and the smell of BBQ was everywhere. It was apparent to us, despite all the seemingly negative aspects we had been researching, that East Palo Alto residents value their community as one of the last affordable cities in the Bay area. At the same time, though, about 20% of the city as residents live below the poverty line and have limited access even to jobs that require long commutes made worse by inadequate public transportation. The city has extremely high water table and low-lying topography also make it exceptionally vulnerable to flooding.

In our design, it was important to us to maintain this sense of community and lifestyle while addressing the risks that climate change has created. We propose to create floating housing on ponds fed by rising groundwater, a network of dock systems and high-density raised housing all to enable communities to live with water and promote resilience without displacement. At an urban scale, our project enables incremental change and increasing density. At the scale of the individual, we focused on maintaining the integrity of the city's culture and open space so valued in suburbia.



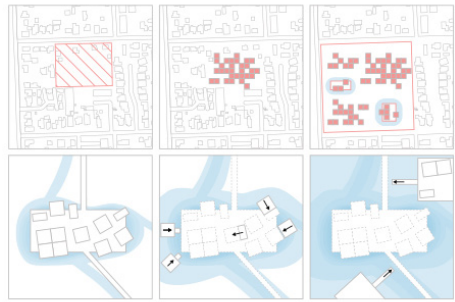


master plan: mapping

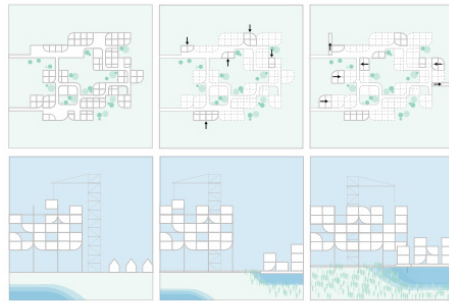


master plan: phase three

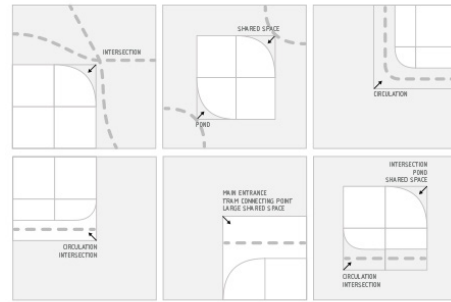
INCREMENTAL



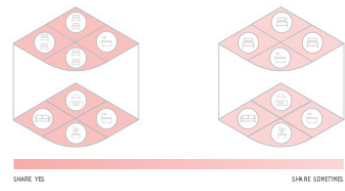
INCREMENTAL



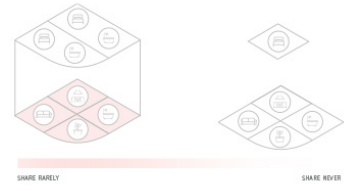
TYPOLOGIES



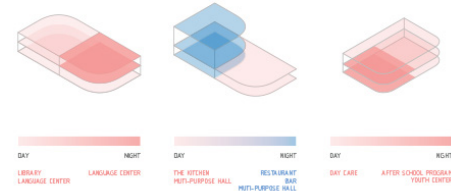
SHARED TOPOLOGIES



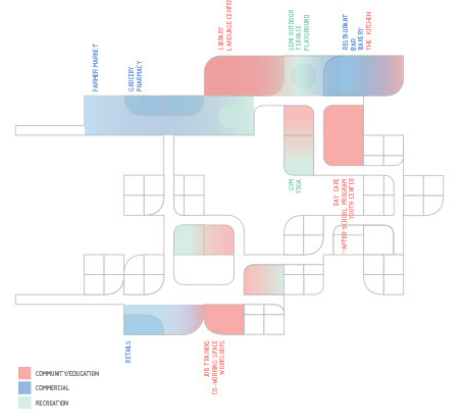
SHARED TOPOLOGIES



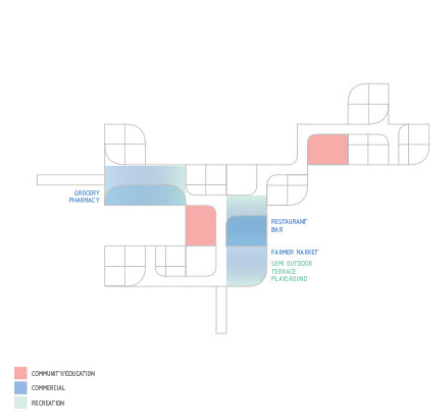
PROGRAMS



PROGRAMS



PROGRAMS



PROGRAMS



diagrams



second floor plan

A REASON TO STAY

With the tram, I get to Facebook so fast

And I get to the ponds much faster. I am going kayaking

It used to take me so long to get to work, the tram is way better and I don't sit in traffic

What a nice wednesday afternoon :)

Good Morning!

Good Morning, I'll get a strawberry banana juice for the young lady. It's so great that you were able to open this place with the expansion.

And the quality has stayed ever since!

Coming right up. Yeah, I wanted to open a place like my dad's that was on this block 20 years ago!

You've been such a great regular. It's great to see an EPA native still here.

EPA DAY CARE

I'll see you later honey.

Morning Dave! How are you doing?

No, what's going on?

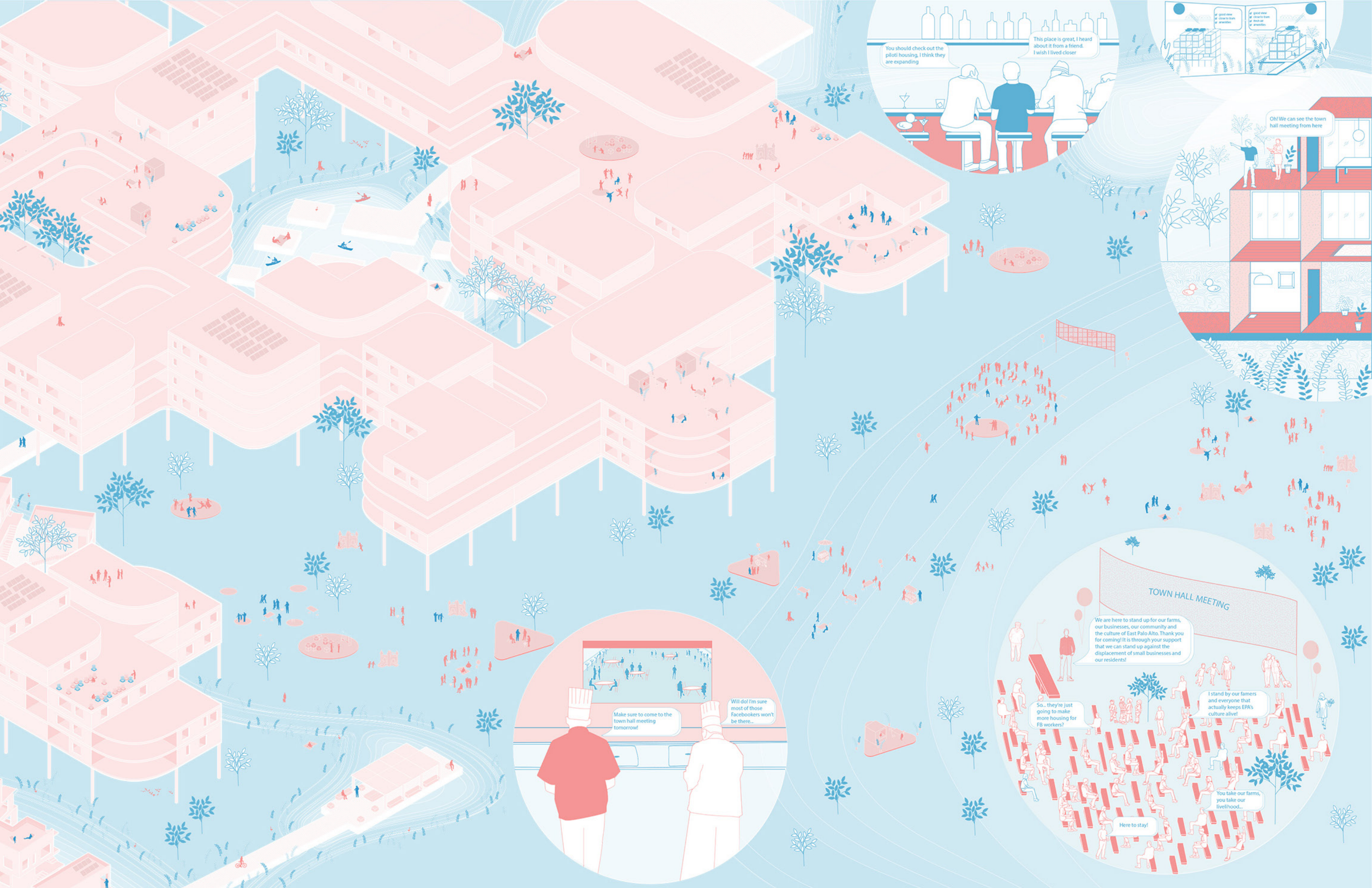
No... we can't let that happen. We need to have a town hall meeting. I will organize it.

I'm alright my friend, we've got your produce ready for you in that box right there. Did you hear the bad news about the Farm?

They're going to close the farm to build more housing units. We'll be closing soon.

You're right, we shouldn't just watch as they take away our livelihood. Thank you, my friend.





You should check out the pilot housing, I think they are expanding

This place is great, I heard about it from a friend. I wish I lived closer

good view
close to Sun
near water

good view
close to Sun
near water

Oh! We can see the town hall meeting from here

Make sure to come to the town hall meeting tomorrow!

Will do! I'm sure most of those Facebookers won't be there...

TOWN HALL MEETING

We are here to stand up for our farms, our businesses, our community and the culture of East Palo Alto. Thank you for coming! It is through your support that we can stand up against the displacement of small businesses and our residents!

So...they're just going to make more housing for FB workers?

I stand by our farms and everyone that actually keeps EPA's culture alive!

You take our farms, you take our livelihood...

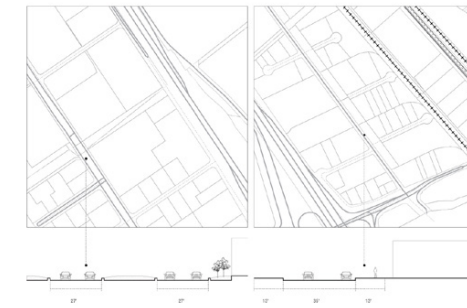
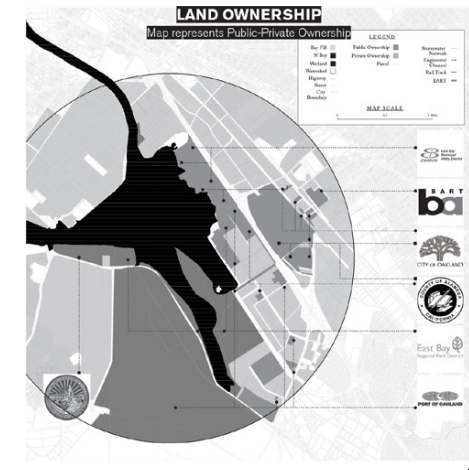
Here to stay!

research

Reformatting Land / Known Unknowns: Scales of Inclusion
 Advanced Studios, Spring 2018 / Fall 2017
 School: California College of the Arts
 Professor: Neeraj Bhatia / Janette Kim

These two studios collaborated with the Urban Works Agency and the All Bay Collective to inform their contribution to the Bay Area: Resilient by Design Challenge.

- 1-6 Building Stock: Land organization and development
 San Leandro Bay, Reformatting Land
- 7-9 Social Equity + Justice: Social Infrastructure
 The Bay Area, Known Unknowns: Scales of Inclusion
- 9-12 Social Equity + Justice: Eco-districts and Cooperatives
 The Bay Area, Known Unknowns: Scales of Inclusion



Colind Industrial Area Street Block
 Street Type: S10
 Number of Intersections: 5

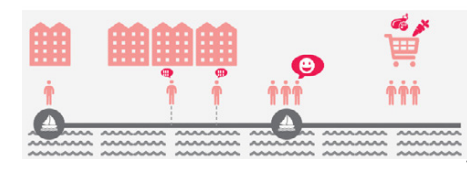
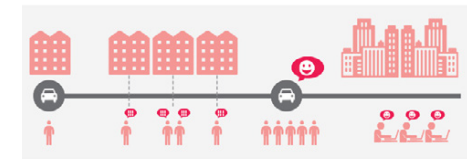
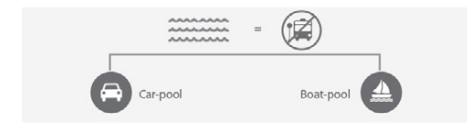
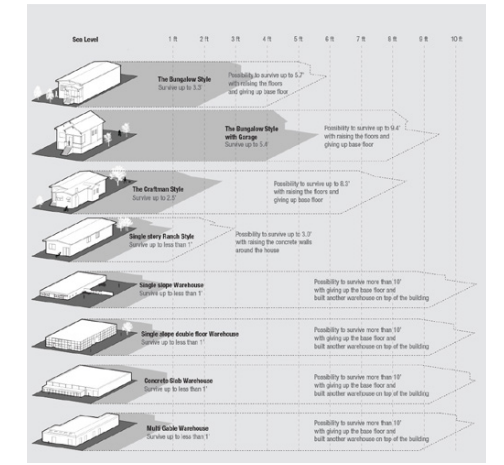
Delind Industrial Area Street Block
 Street Type: S10
 Number of Intersections: 5



Colind Street Block
 Street Type: S10
 Typical Parcel size: 100' x 41' (4,100 sq ft)
 Number of Intersections: 10

Alameda Street Block
 Street Type: S10
 Typical Parcel size: 100' x 41' (4,100 sq ft)
 Number of Intersections: 20

Bay Point Island Street Block
 Street Type: S10
 Typical Parcel size: 100' x 41' (4,100 sq ft)
 Number of Intersections: 20

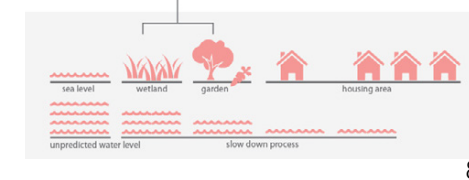
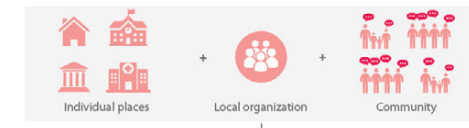


SAN FRANCISCO COMMUNITY LAND TRUST (SFCLT)
 is supported by

- Local, state, and federal public resources
- grants/donors
- gratuities supporters
- Some of our largest funders:
 - San Francisco Federal Credit Union
 - City and County of San Francisco
 - Mayor's Office of Housing and Community Development
 - Federal Home Loan Bank of San Francisco

Maximum monthly payments at no more than 30% of the target Area Median Income (AMI) for the unit.

Person	1	2	3	4	5	6	7
30% OF MEDIAN	\$24,300	\$27,750	\$31,350	\$34,650	\$37,350	\$40,350	\$42,900

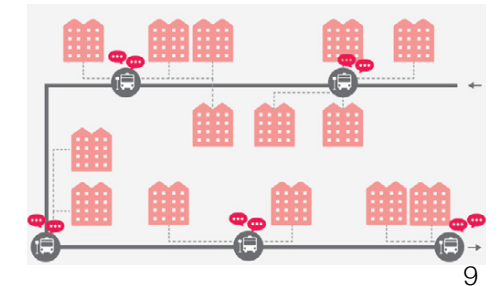
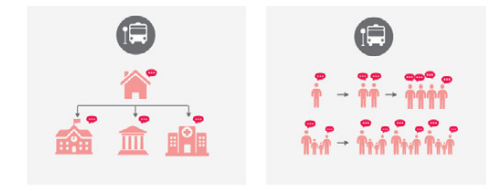


COMMUNES

an intentional community... of people that live together... common interests / ideas / values / beliefs / resources / responsibilities

support

- social connections: friends, knowledge, career
- economic benefits: affordable rent
- save energy



TALBOT-NORFOLK TRIANGLE (TNT) ECO-INNOVATION DISTRICT
 BOSTON, MA, USA - JUNE 2017

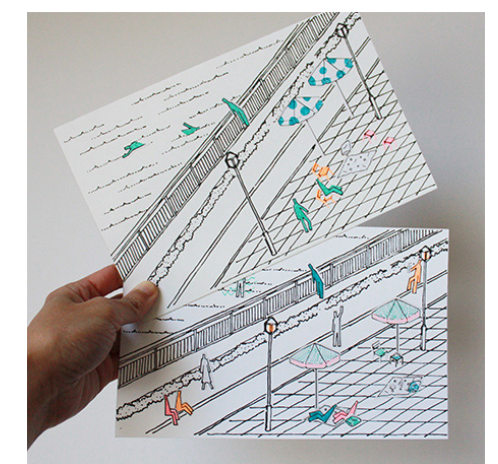
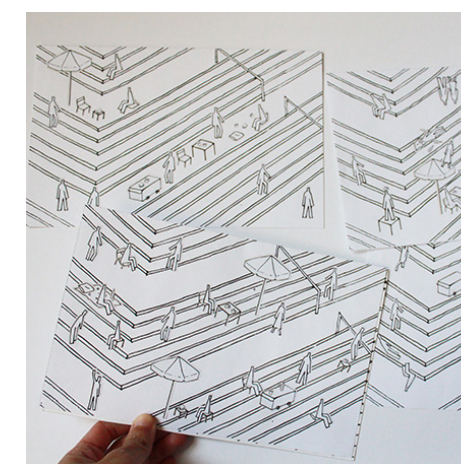
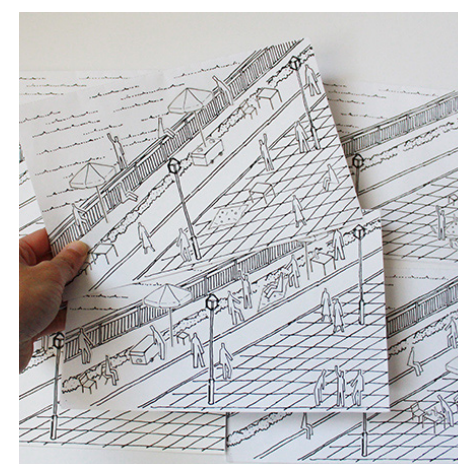
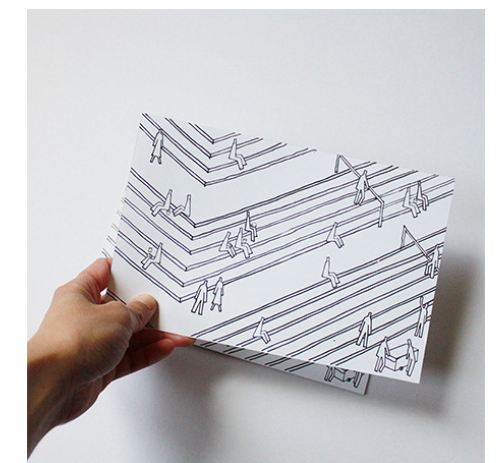
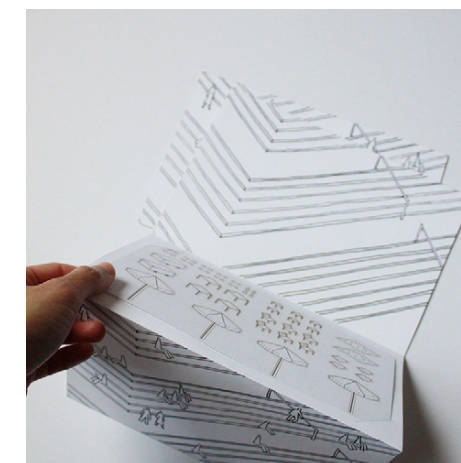
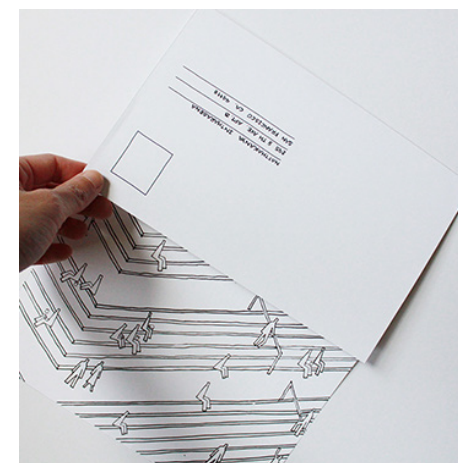
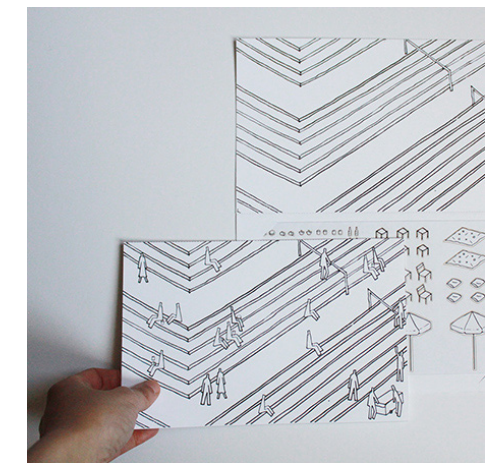
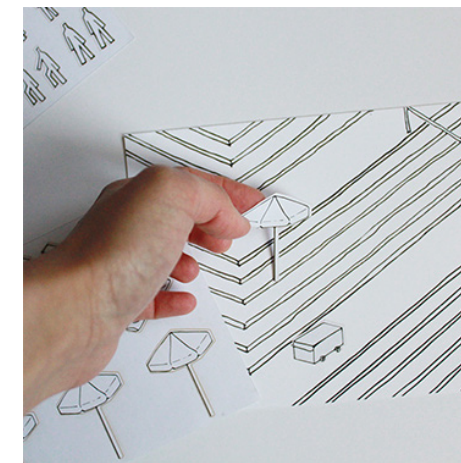
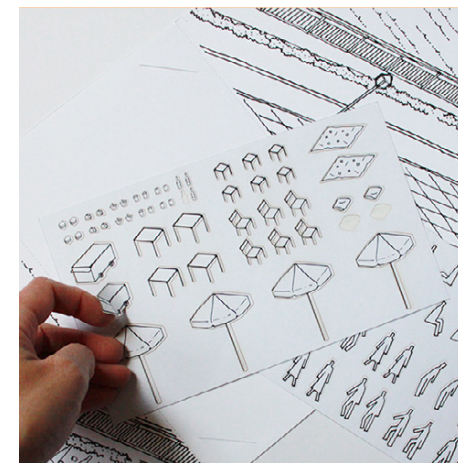
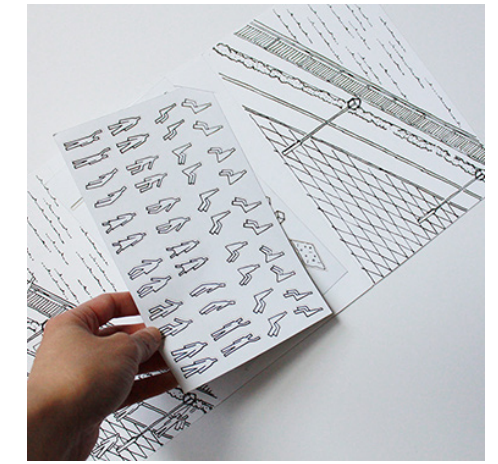
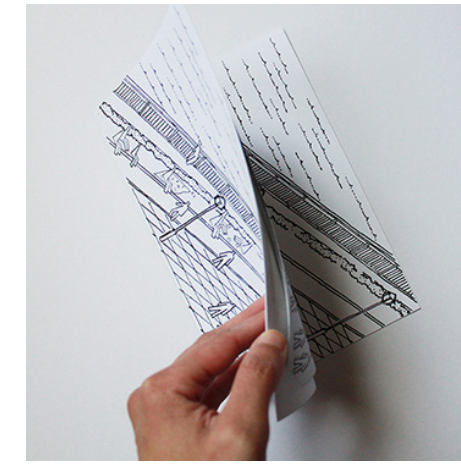
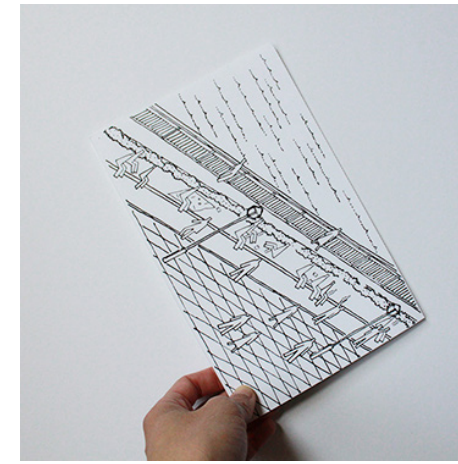
- Solar panel: 11% reducing greenhouse gasses in the TNT ESD by 11 percent
- Talbot Commons LEED Certified: \$267,900 saving neighborhood stakeholders \$267,900 in energy costs
- Green bus shelter roofs

urban toolkit

Spatial Genealogy
Seminar: Spring 2018
School: California College of the Arts
Professor: Christopher Falliers

A Urban Toolkit project is a final 'Book' project for the class and also my going on researching and documenting project of observing public infrastructures which are used informal way. As an architect who interest in designing public space, I try to find the way to build my toolset that can be part of observing cities and people, learning about places and activities, and documenting them through drawings. I also see this project as a new tool for asking and getting community opinion through the interaction with a postcard, stickers and pens.

A full postcard package has three parts: informational part; a drawing of the place will its currently use, experimental part; a drawing of the place will no use, and toolkit; a set of stickers or pens. People who receive the postcard will get to learn information of the place and create their own activity. They will be able to keep informational part and send back experimental part to my address.



build your own...

Placemaking

Seminar: Summer 2017

School: California College of the Arts

Professor: Elizabeth Lessig and Monica Martinez

As a designer, I want to be able to design a meeting area that users can create and interact with an activity which I provide. Why does this project focus on a meeting area? The idea of a meeting space is a result from the location of the project, located at Jane Warner Plaza in the Castro district. This site is the intersection of Market Street, Castro Street, and 17th Street. It is also the junction of public transportations such as Muni Metro station, F-line streetcar and the 24th bus stop. For these reasons, this plaza is a location to be a meeting space. Another reason is based on my experience in the neighborhood; my friends and I often do not know exactly which cafe, restaurant, or bar we would like to go, or we cannot arrive there at the same time. In general, waiting for someone is not always fun; therefore, we need some place where we can meet and wait. The design is composed of three main parts: wall or floor, joint, and seat and table. The users can interact with this design by building or adjusting their own seat or table that match with their proportion. This building process will be very simple and similar to putting furniture or playing Lego. This project will not engage people with only design, but it also allows people to connect with each other by sharing the idea of building the seat.



creative thinking kindergarten

Undergraduate Thesis

Thesis Studio: 2012

School: King Mongkul's Institute of Technology Ladkrabang (KMITL)

Professor: Pornphut Suppa-aim

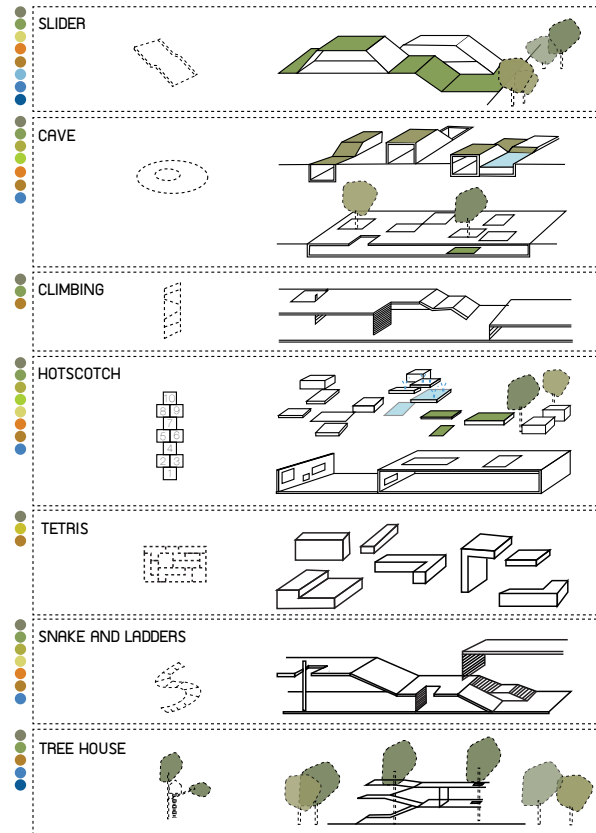
WHAT DO THEY THINK ABOUT PLAY?

KIDS	ADULTS
Play	Play
Imitation / Curious	Learning
Fun / Happy	Imagination
Play	Experience
	Physical
	Intelligence
	Social
	Environment
	Integrated development
	Creative
	Play

WHAT DO KIDS PLAY ?

Play with Architecture	Space	●
	Circulation	●
	Void / Facade	●
	Lighting	●
	Furniture	●
	Layout	●
	Landscape	●
	Level	●
Play with Environment	Nature	●
	Culture / Social	●

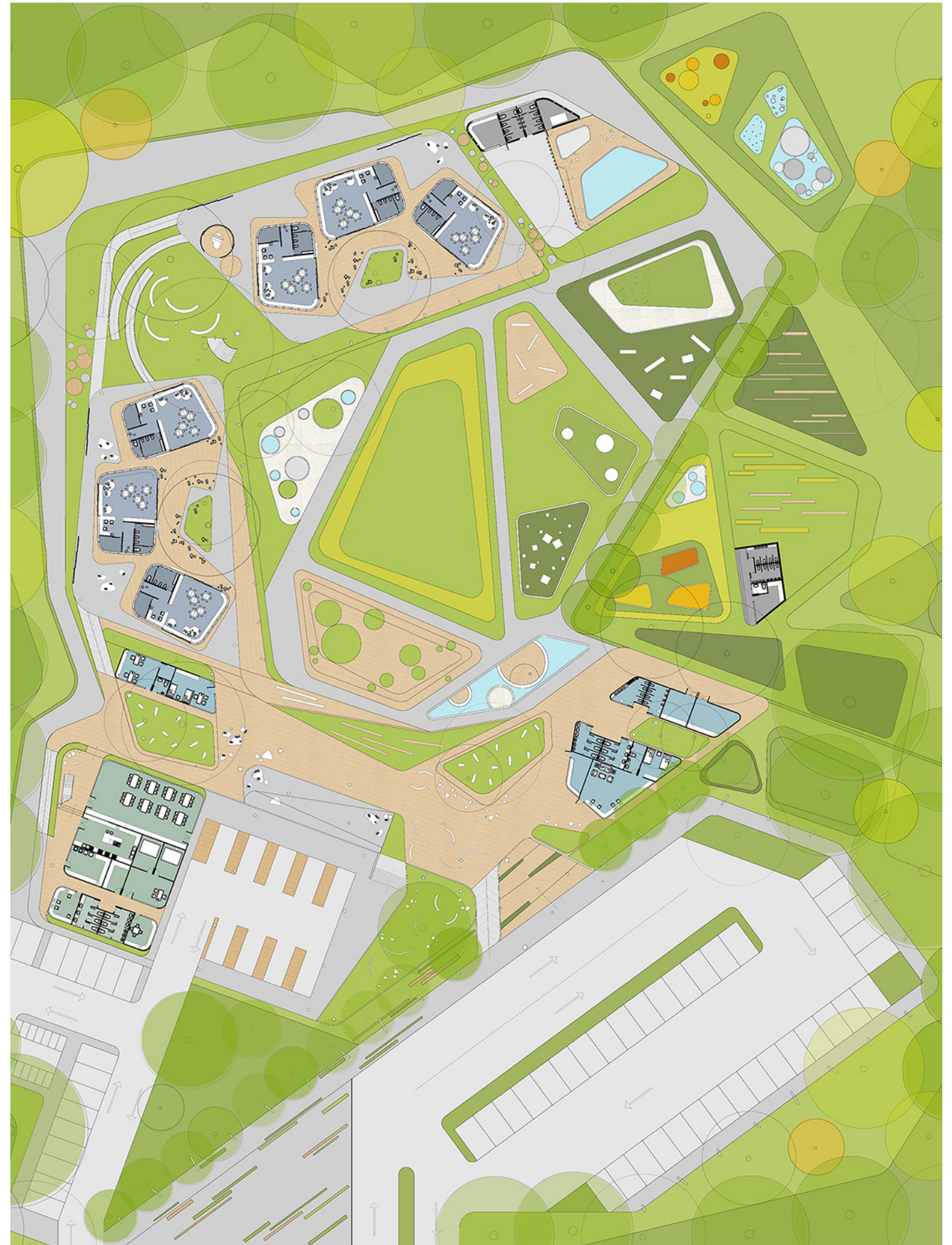
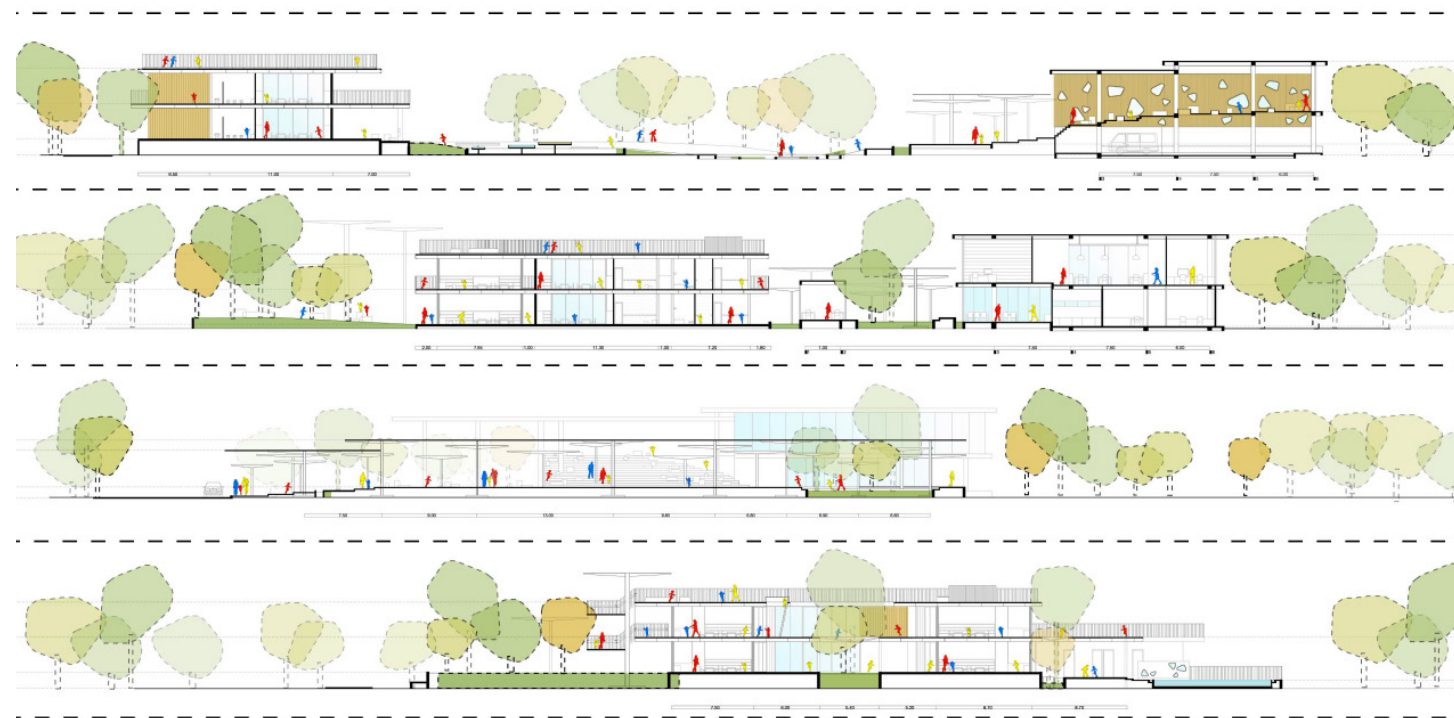
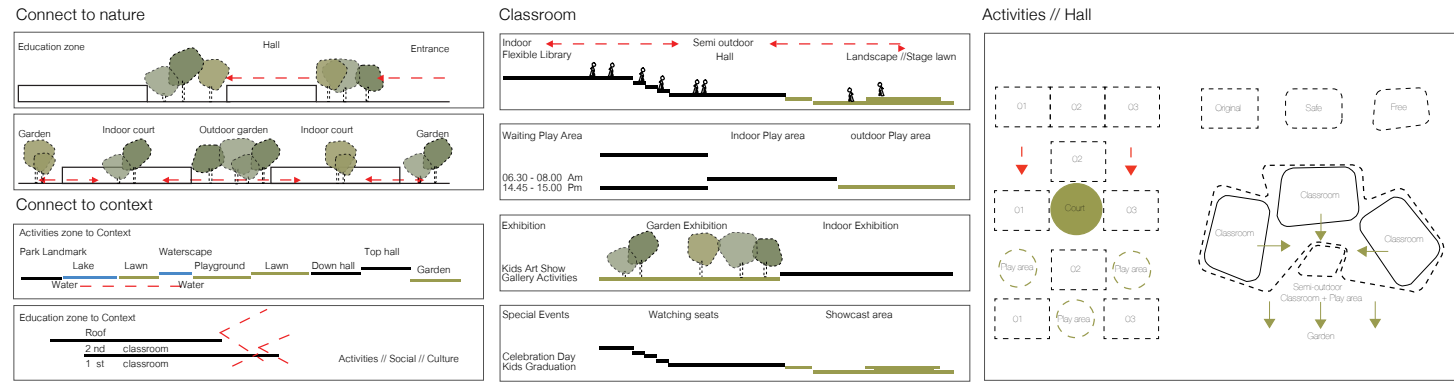
HOW DO KIDS PLAY ?



WHAT KIDS GET FROM PLAY ?

Observation of level / Sensation of movement
Explorer / Observation / Sensation of different levels
Explorer / Observe of different levels / Sensation of movement / Interaction with friends
Body & Eye sensation
Body sensation / Observe of different level and environment
Observation of shade & shadow
Imagination / Creative / Interaction / Sensation
Interaction with friends / Respect the rules / Observe of different level / Sensation of movement / Explorer
Observe of different level and environment / Interaction with friends / Sensation of movement

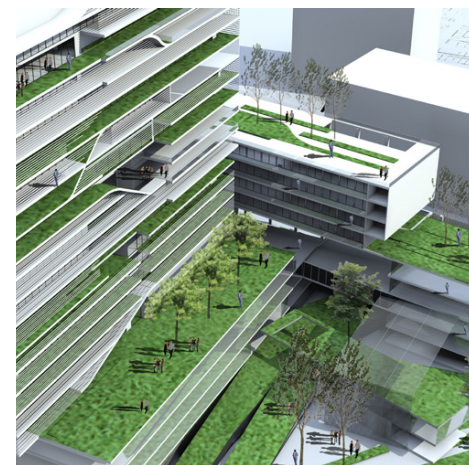
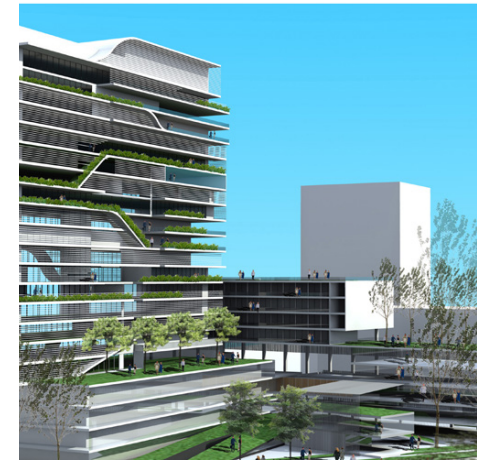
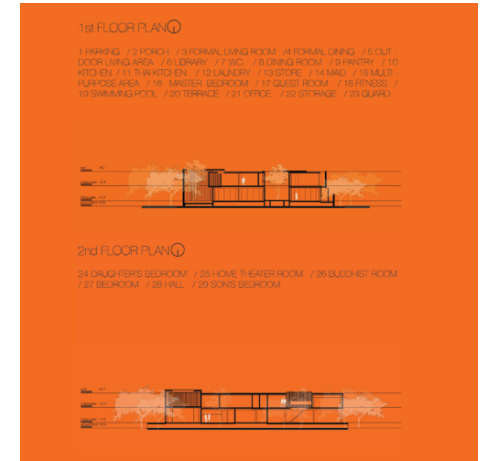
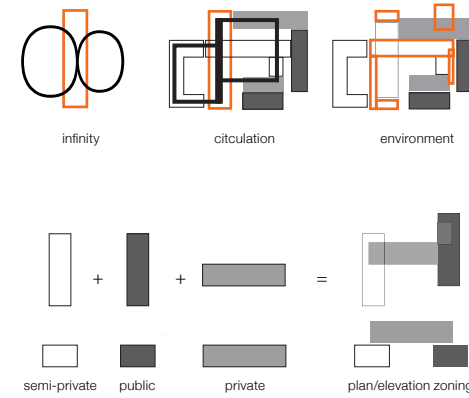




undergraduate projects

1-6
 Infinity House
 Extended Family Housing and Home Office
 3rd year Undergraduate Design Studio
 King Mongkul's Institute of Technology Ladkrabang (KMITL)

6-12
 BN+R Hospital
 A hospital with 500 patient rooms
 4th year Undergraduate Design Studio
 Partner: Jarupong Ug-Sirisakul
 King Mongkul's Institute of Technology Ladkrabang (KMITL)



1

2

3

4

5

6

7

8

9

10

11

12

professional work experience

1-3 EEC-Engineering Network Office
Work Experience with Paa Studio Co.Ltd
Bangkok, Thailand

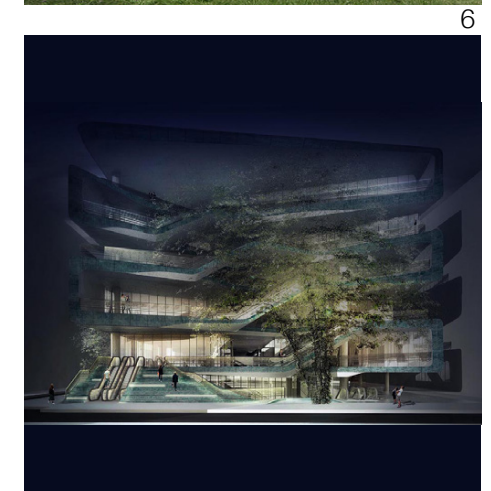
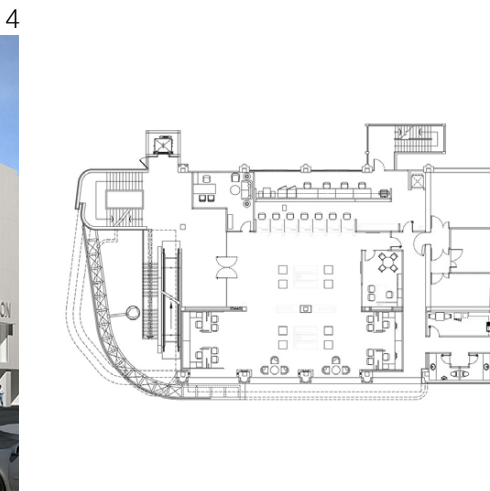
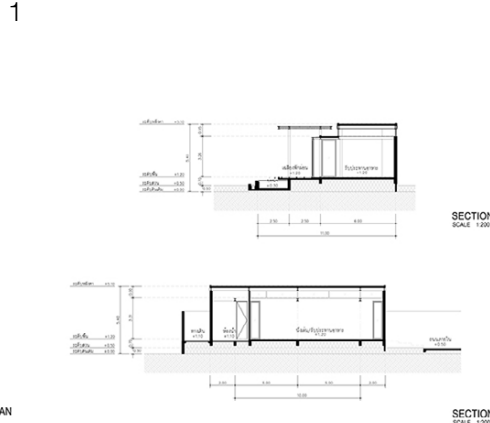
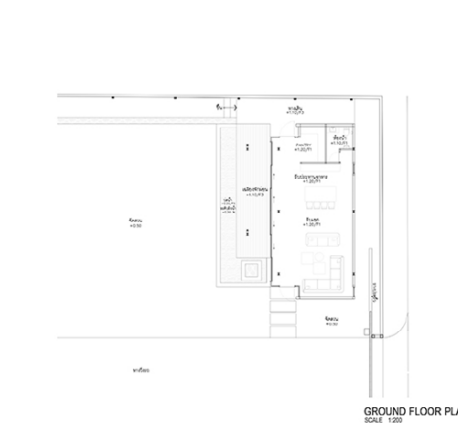
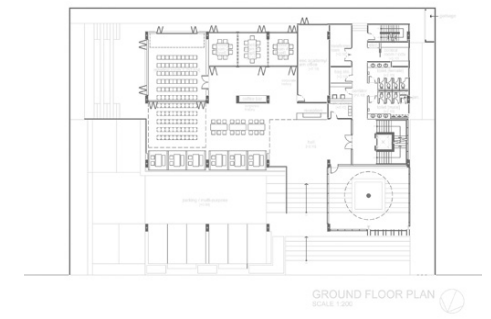
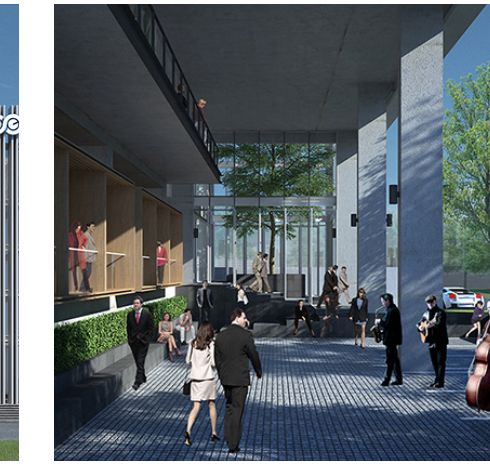
4-6 Navathani Housing
Work Experience with Paa Studio Co.Ltd
Bangkok, Thailand

7-8 Bangkok Bank: Renovation
Work Experience with Paa Studio Co.Ltd
Bangkok, Thailand

9 Mix Used Saladaeng: Lighting Design
Internship with Apld Design Co.Ltd
Bangkok, Thailand

10 Saap Ver Authentic Thai Cuisine
Wall Design: Freelancer
San Francisco, US.

11-12 Panda Noodle Shop
Pop-up Kiosk: Freelancer
China



1

2

3

4

5

6

7

8

9

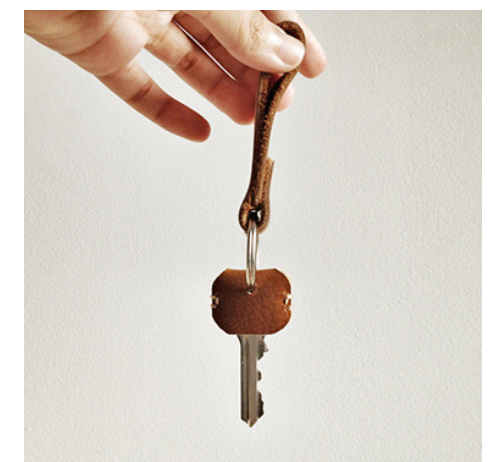
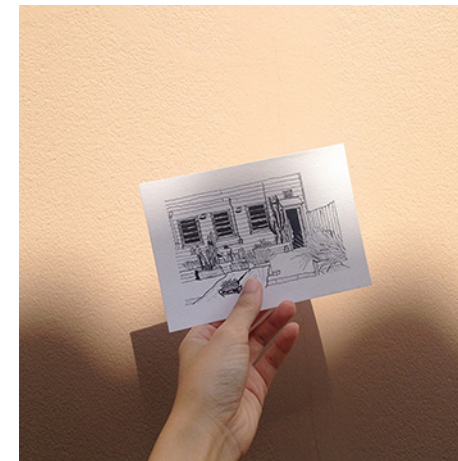
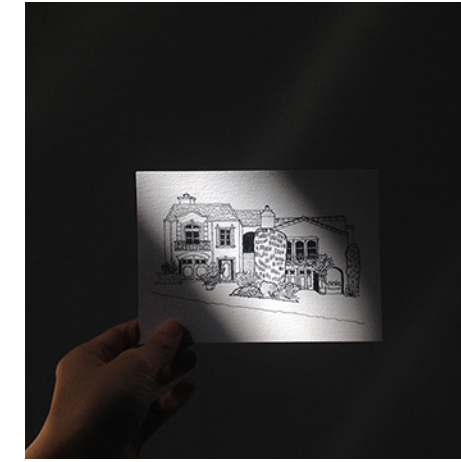
10

11

12

#drawingdaylight small leather goods

Interests and free time activities
Drawing, photography and handcrafting



/nat·tha·kan·ya/

natthakanyain@gmail.com
natthakanya.com
+1.415.619.1129