

HAOBO HU

Architecture Portfolio
Selected Work 2016 - 2019

CONTENTS

01	PARKVIEW TOWERS	3
	<i>-- midrise affordable apartment design</i>	
02	WALKUP UNITS	10
	<i>-- workforth apartment design</i>	
03	FIRESTATION 3	16
	<i>-- local firestation design</i>	
04	COMMON GROUND	21
	<i>-- Market Street Prototype Festival</i>	
05	THE LAST MILE	24
	<i>-- 42-hour competition design</i>	
06	OTHER WORKS	27
	<i>-- fabrication + representation projects</i>	



01 PARKVIEW TOWER

TYPE

SITE LOCATION

DATE

COLLEAGUE

Studio W

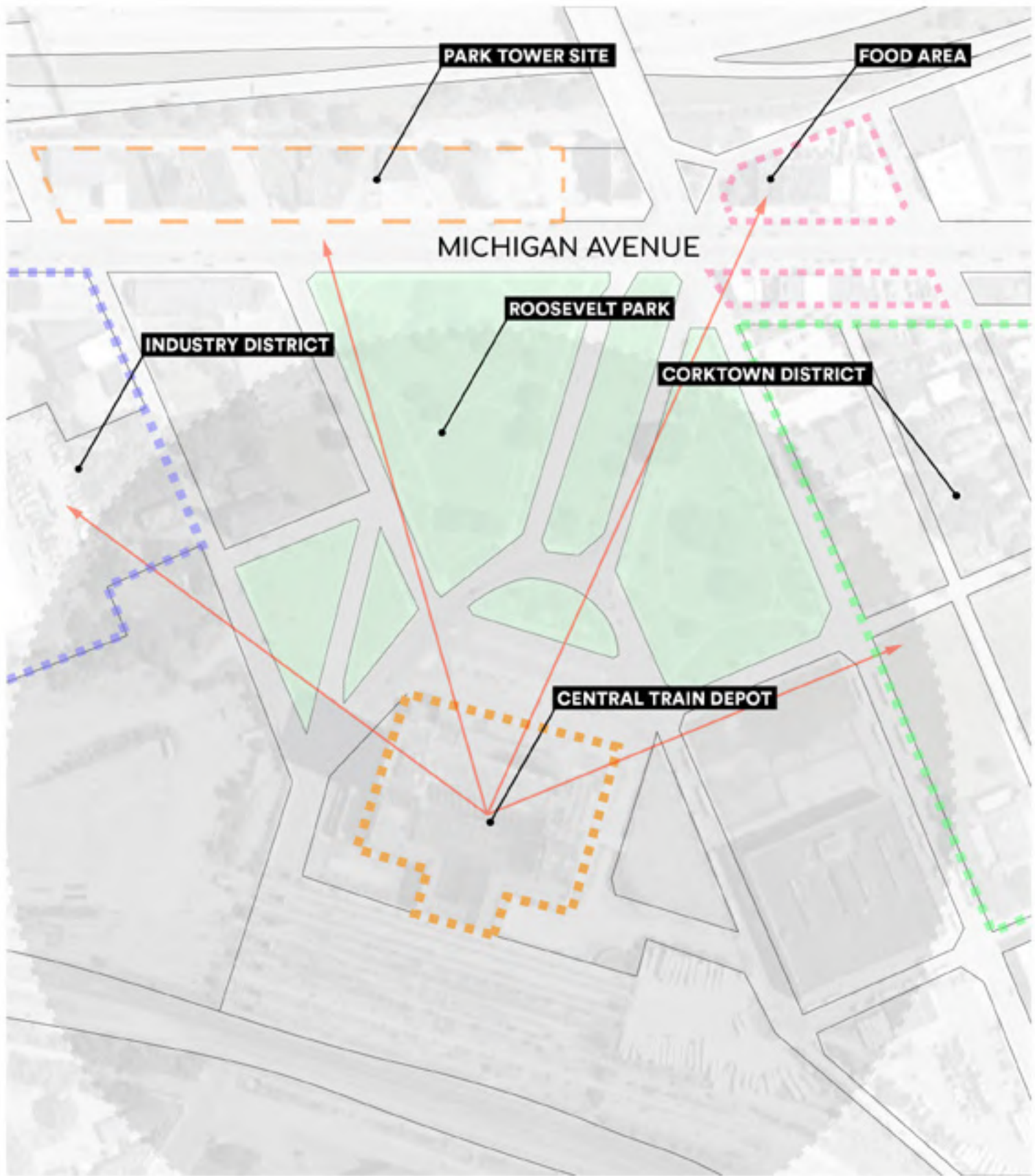
Detroit, Michigan

Fall, 2018

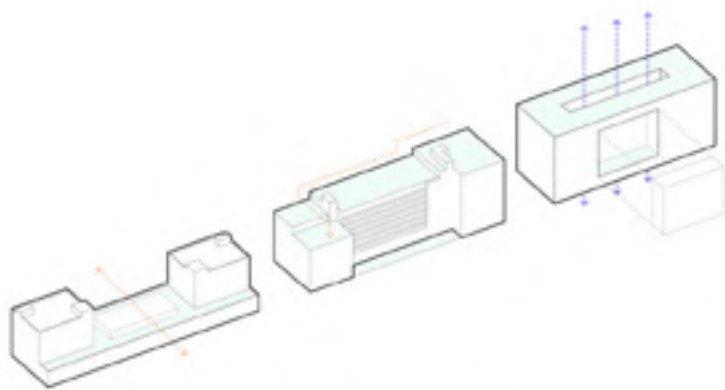
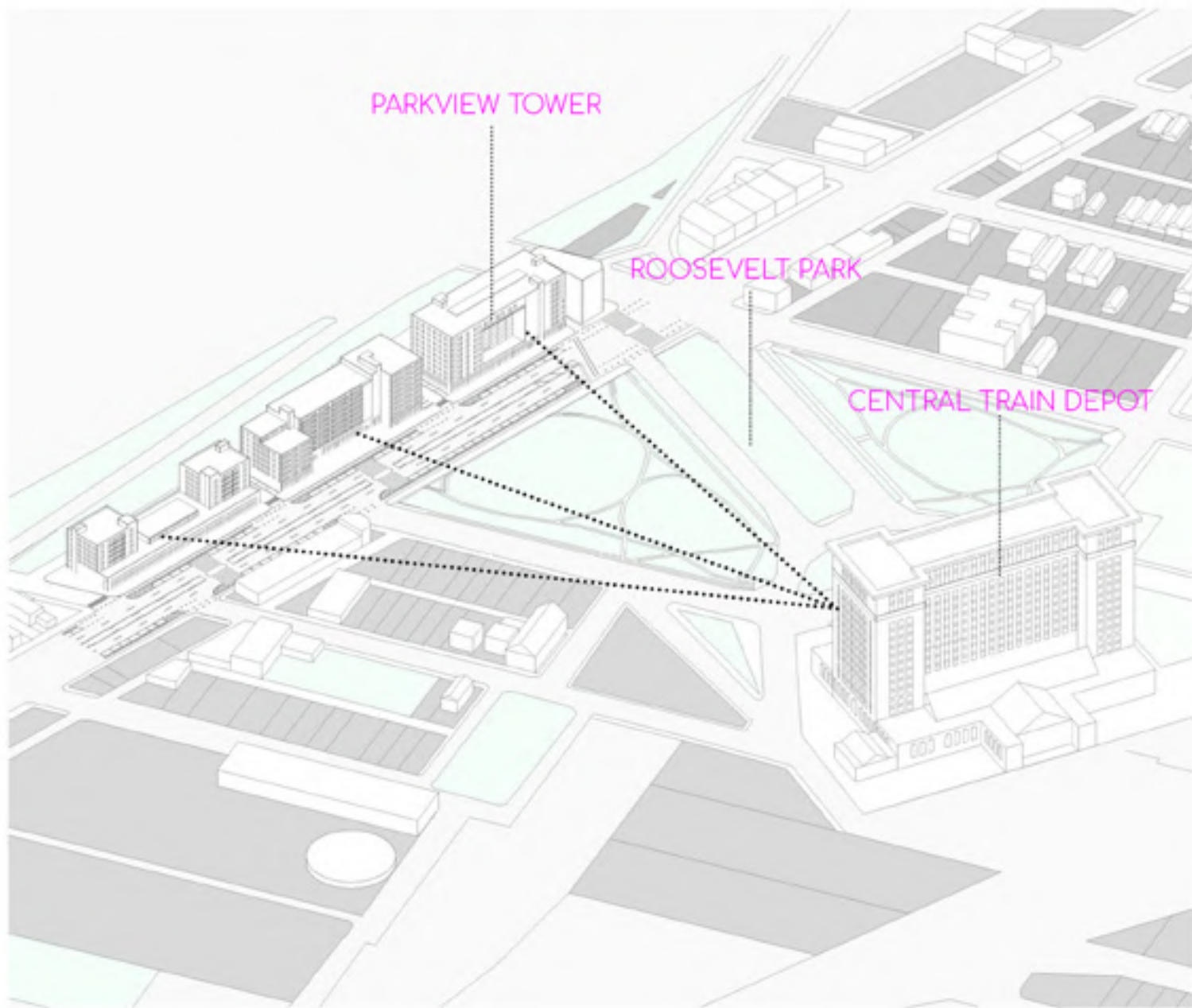
Chengying Gong, Haobo Hu, Tinki Z



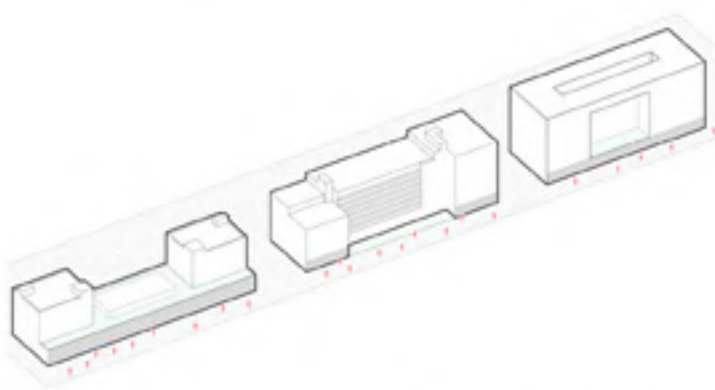
On the historical Michigan Avenue, there is going to be a workforth apartment, located right next to the Detroit Central Train Depot and Roosevelt Park. This apartment aims to young people who just graduated from college and people who works for the Ford company which owns the Central Train Depot building. Also, this site is only 15 minutes away from the downtown Detroit, which will have positive impact to the economic renaissance of Detroit.



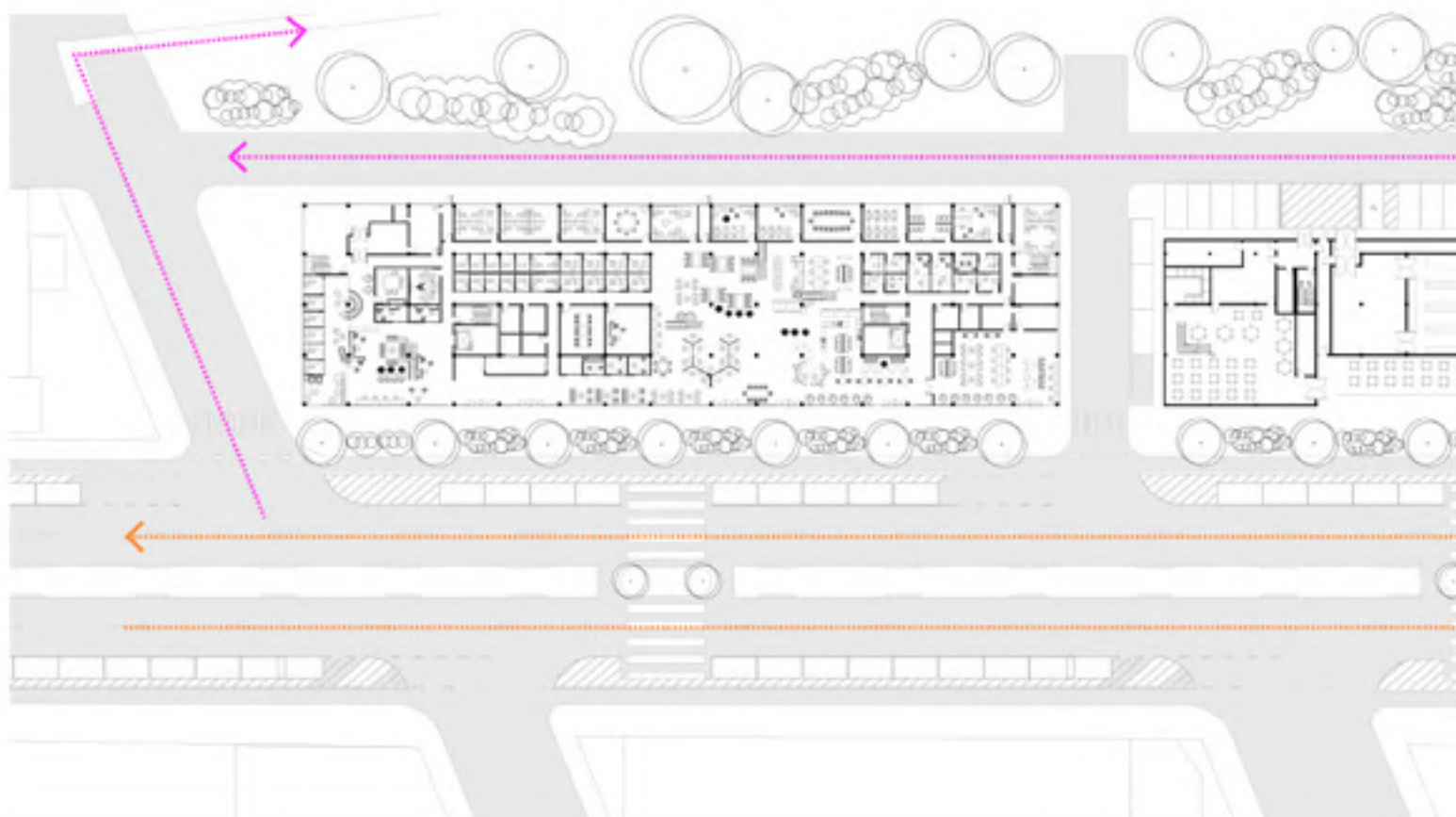
The site is right on the historical Michigan Avenue, facing towards the Michigan Central Train Depot. This train station is now owned by the Ford Company, which means the renaissance of the Roosevelt Park District. Corktown district is right across the street to the site, which is helpful to create the walkable community for the Parkview Tower apartment. Also, the highway I-94, on the north side of the apartment, provides people another option to visit this public attracting district.



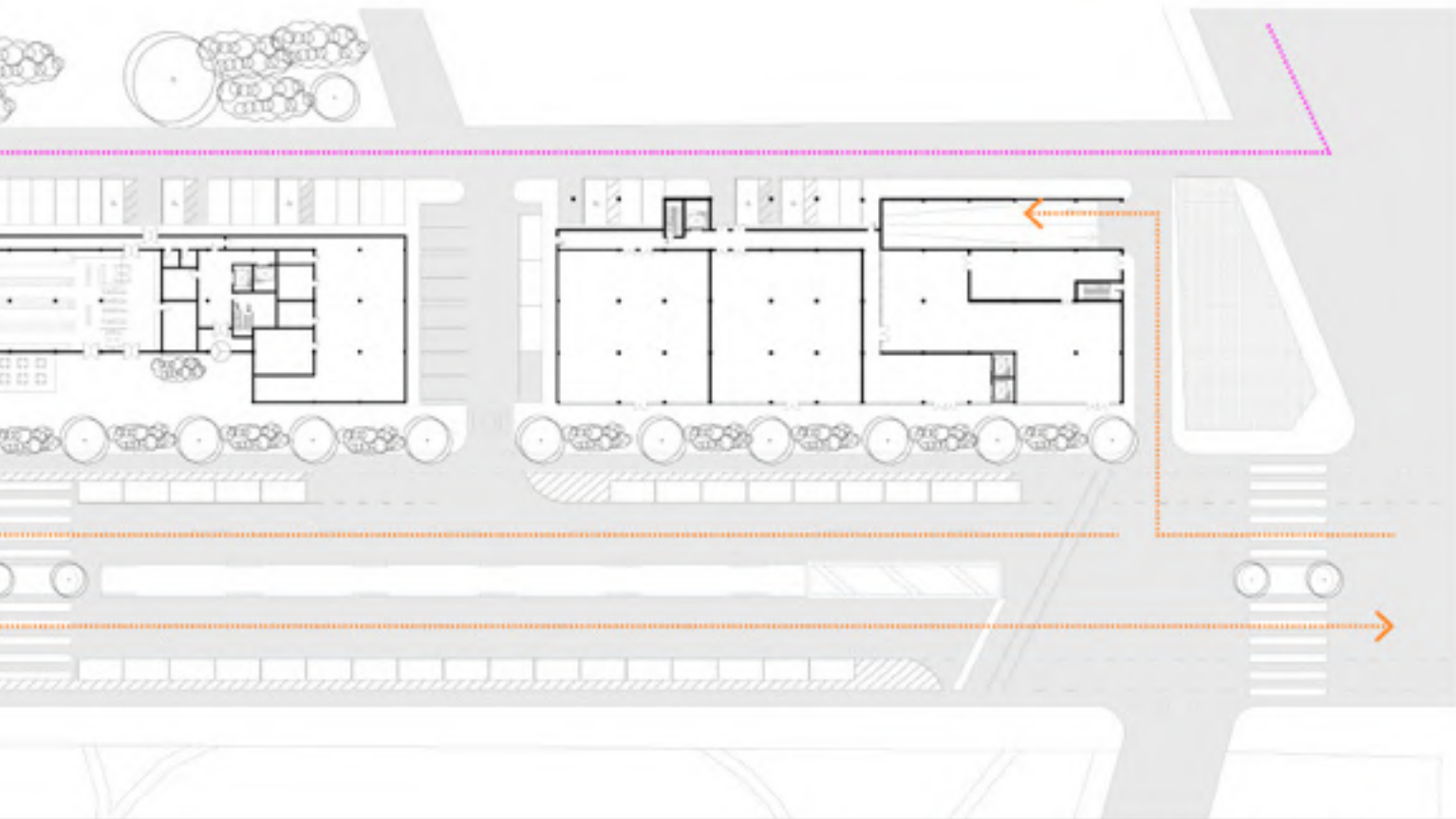
Accessible roof terraces provide people more valuable exterior spaces. The atrium feature in the first tower aims to create a indoor gathering space for residents and also provide more direct daylight into the 11-story tower building.



On the street level, there are series of retail stores, such as dental office, restaurants, fashion stores and barber shops. This situation will help to create a walkable community for people living there, and it will also be harmonious with the culture of the historical Michigan Avenue.



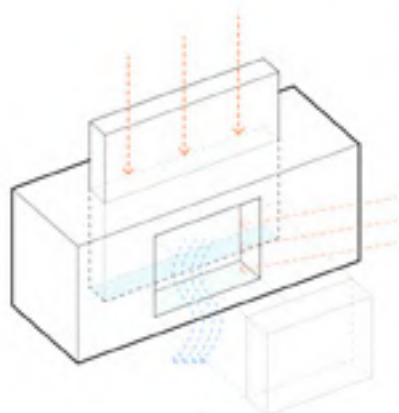
SOUTH E



- MAIN ACCESS ROUTE
- BACK ALLEY ROUTE

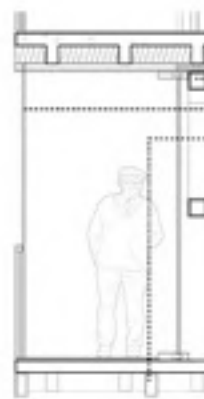


ELEVATION



Central atrium brings more direct daylight into the interior space of this tower. Also, on the second floor, it creates a large public gathering space for residents.

The opening on the south facade increases the natural ventilation and creates a green terrace for people.



ATRIUM TOWER



- 4' STEEL TRUSS
- 2' STEEL CABLE
- 4' HORIZONTAL TRUSS

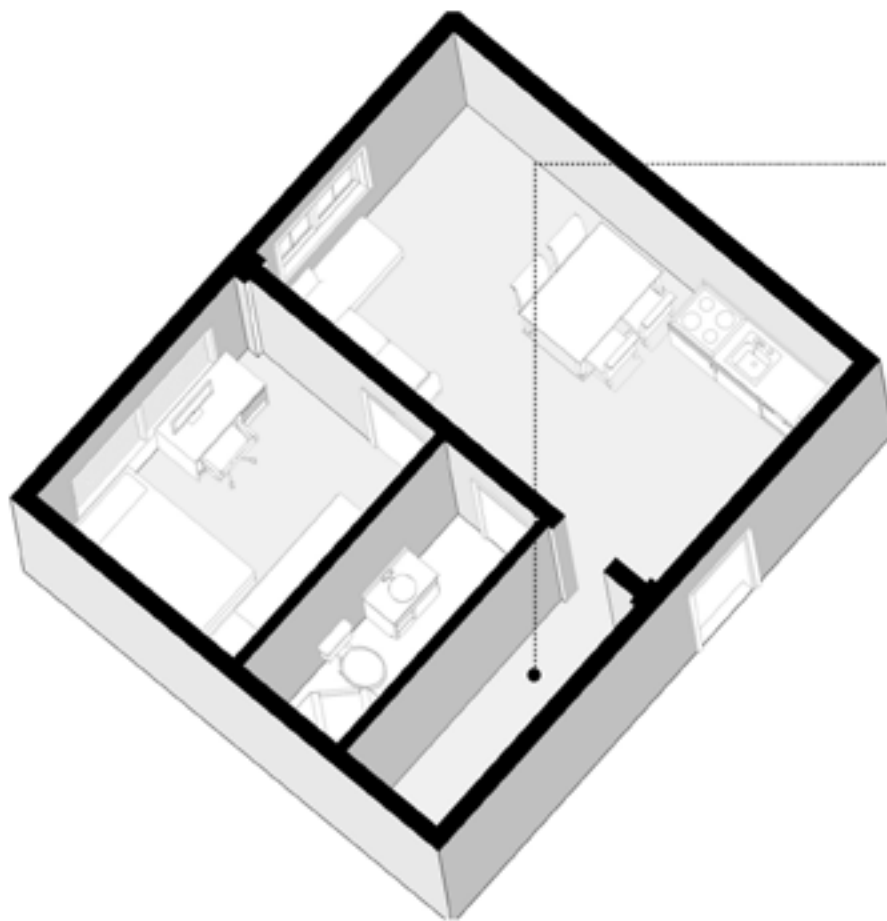
The 4 feet steel truss makes the cantiliver floor and the facade opening possible. Moreover, the 2 inch steel cable and the horizontal truss strengthen the circulation corridor.



A public bar is located on the roof level, which provides another gathering space for residents. In addition, this over 90 ft outdoor terrace allows people to get the view of downtown Detroit and shoreline of Canada.



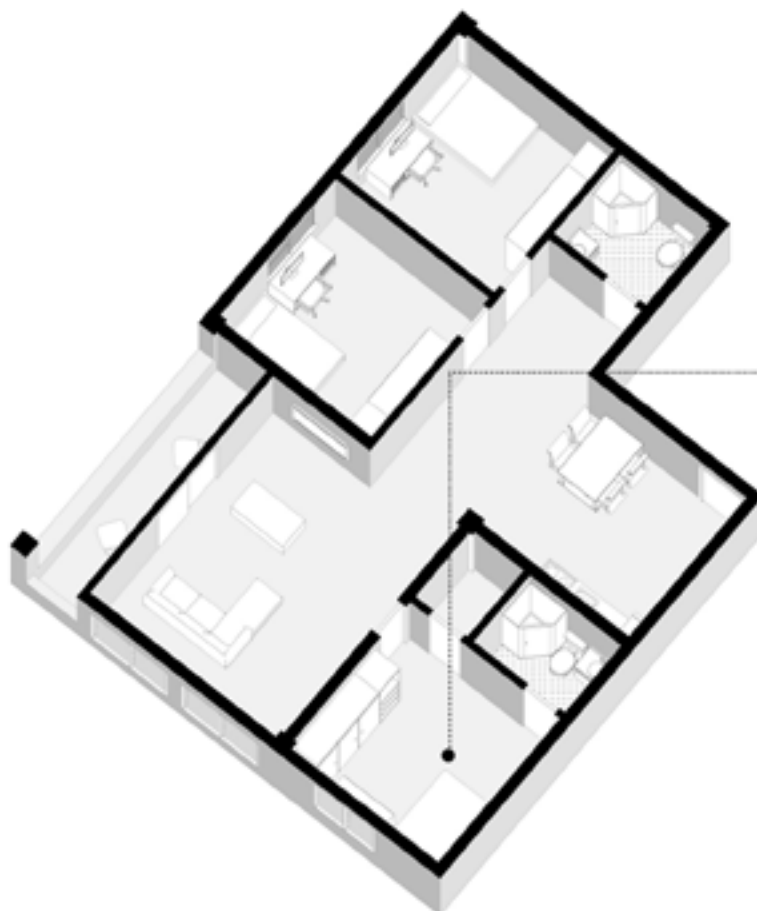
ER ELEVATION



Storage Room

UNIT TYPE ONE:

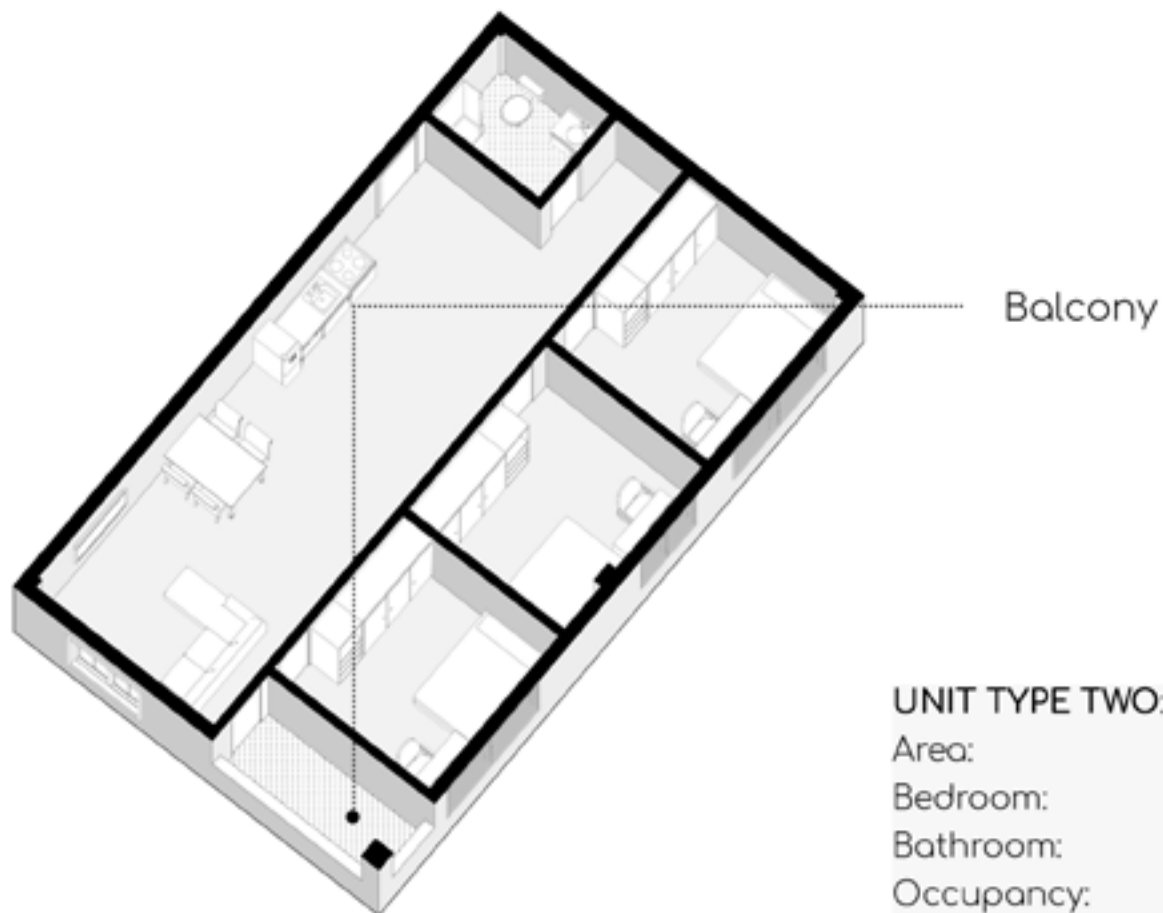
Area:	516 ft ²
Bedroom:	1
Bathroom:	1
Occupancy:	1-2

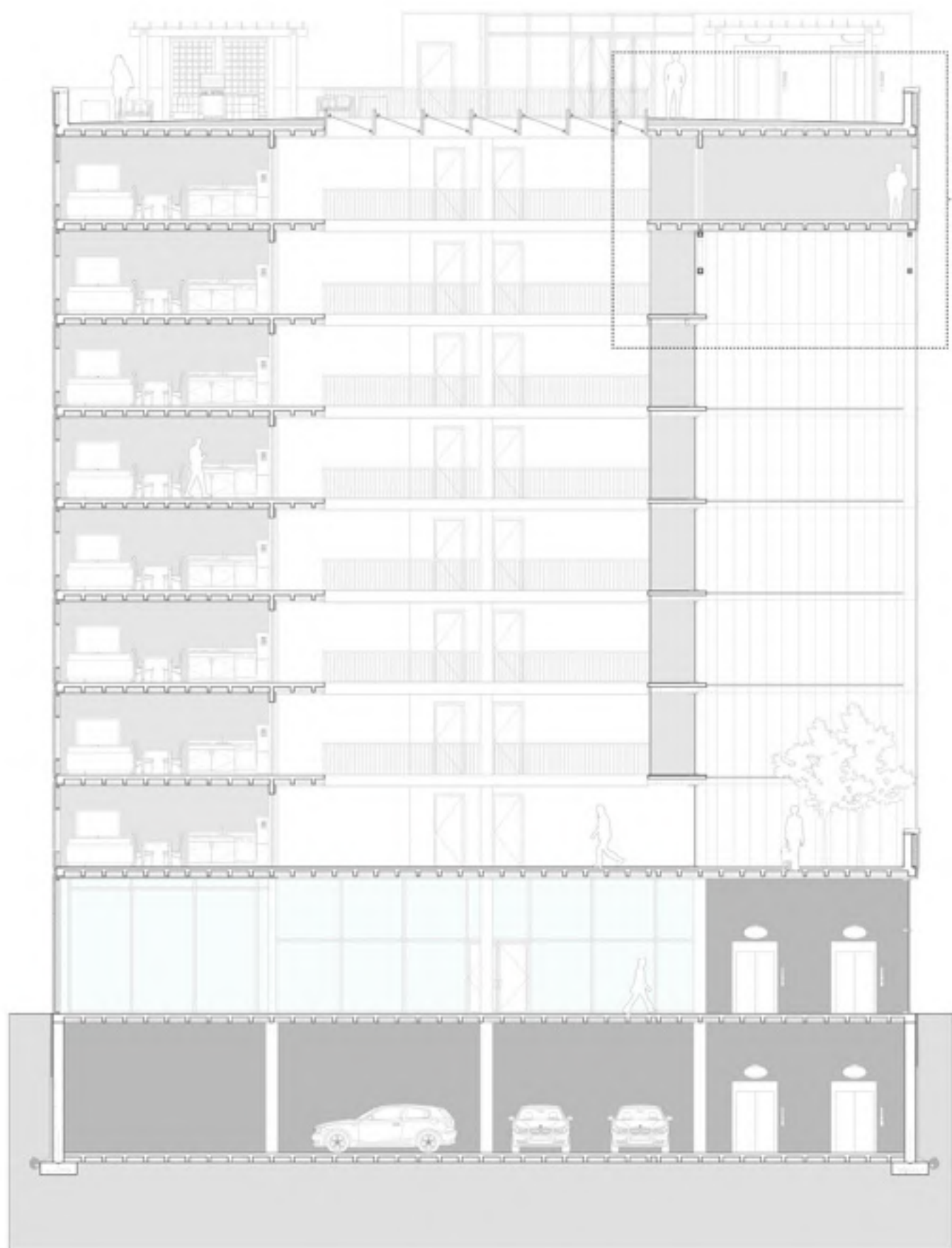


Master Bedroom

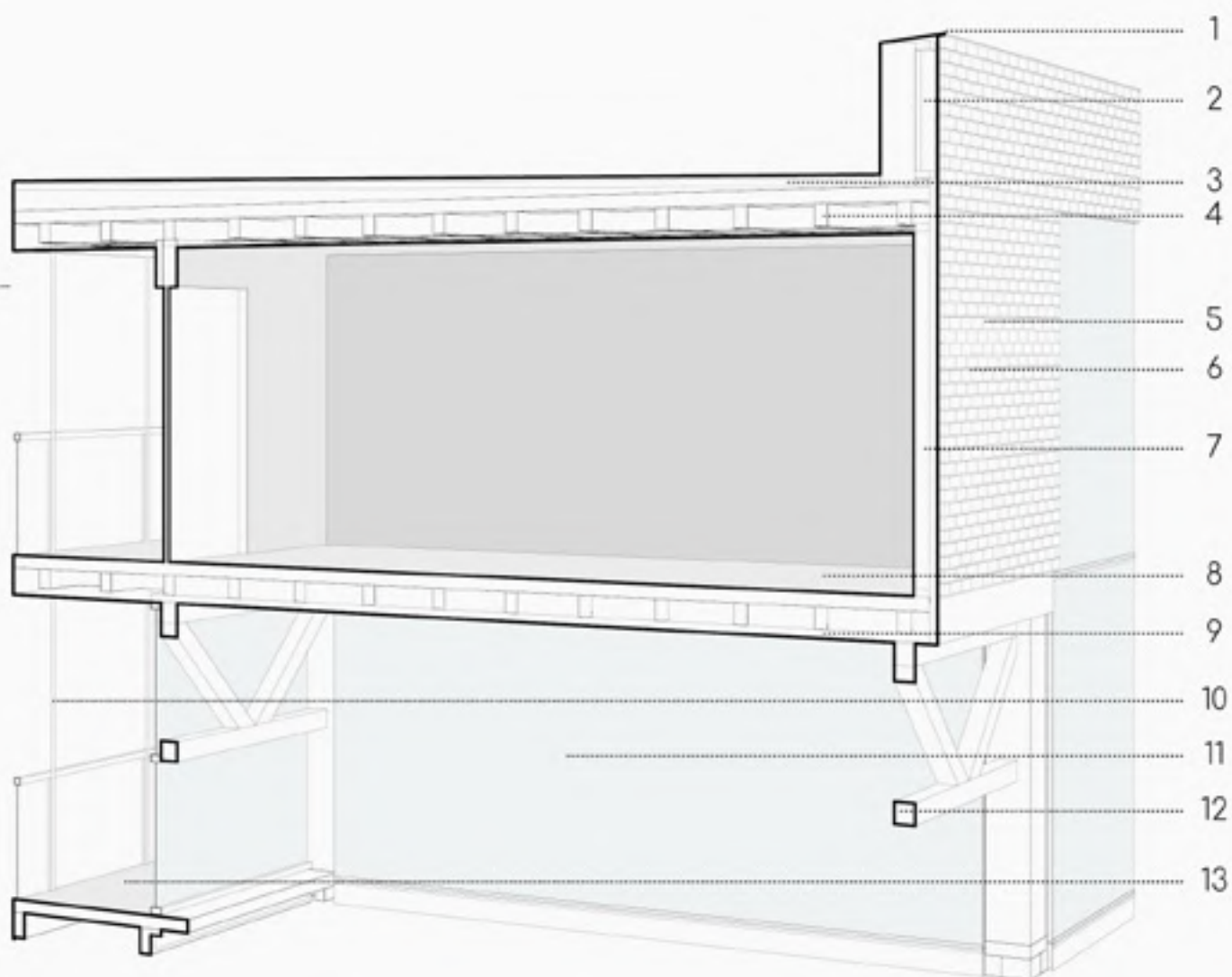
UNIT TYPE THREE:

Area:	1279 ft ²
Bedroom:	3
Bathroom:	2
Occupancy:	3-4





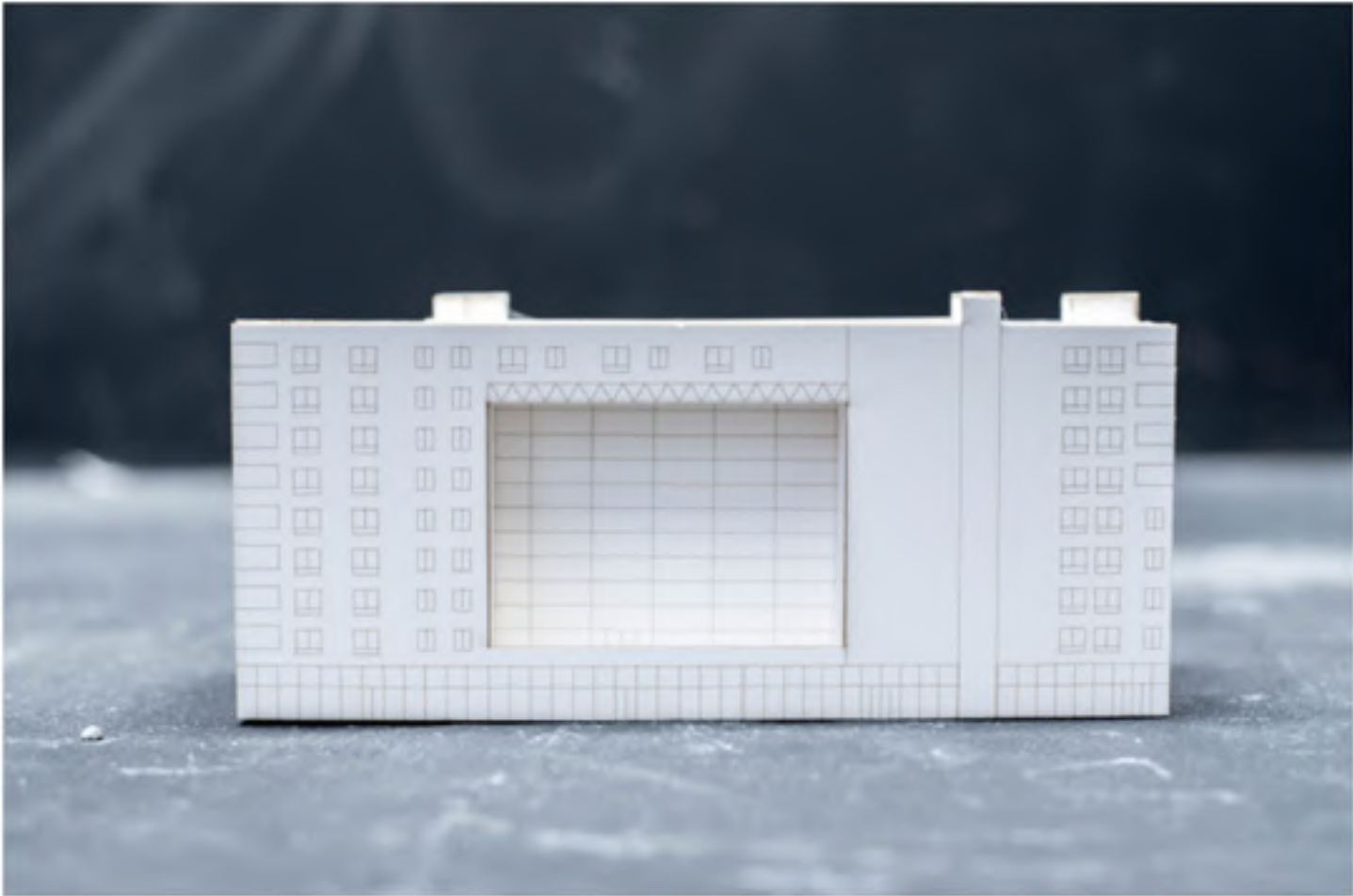
CROSS SECTION

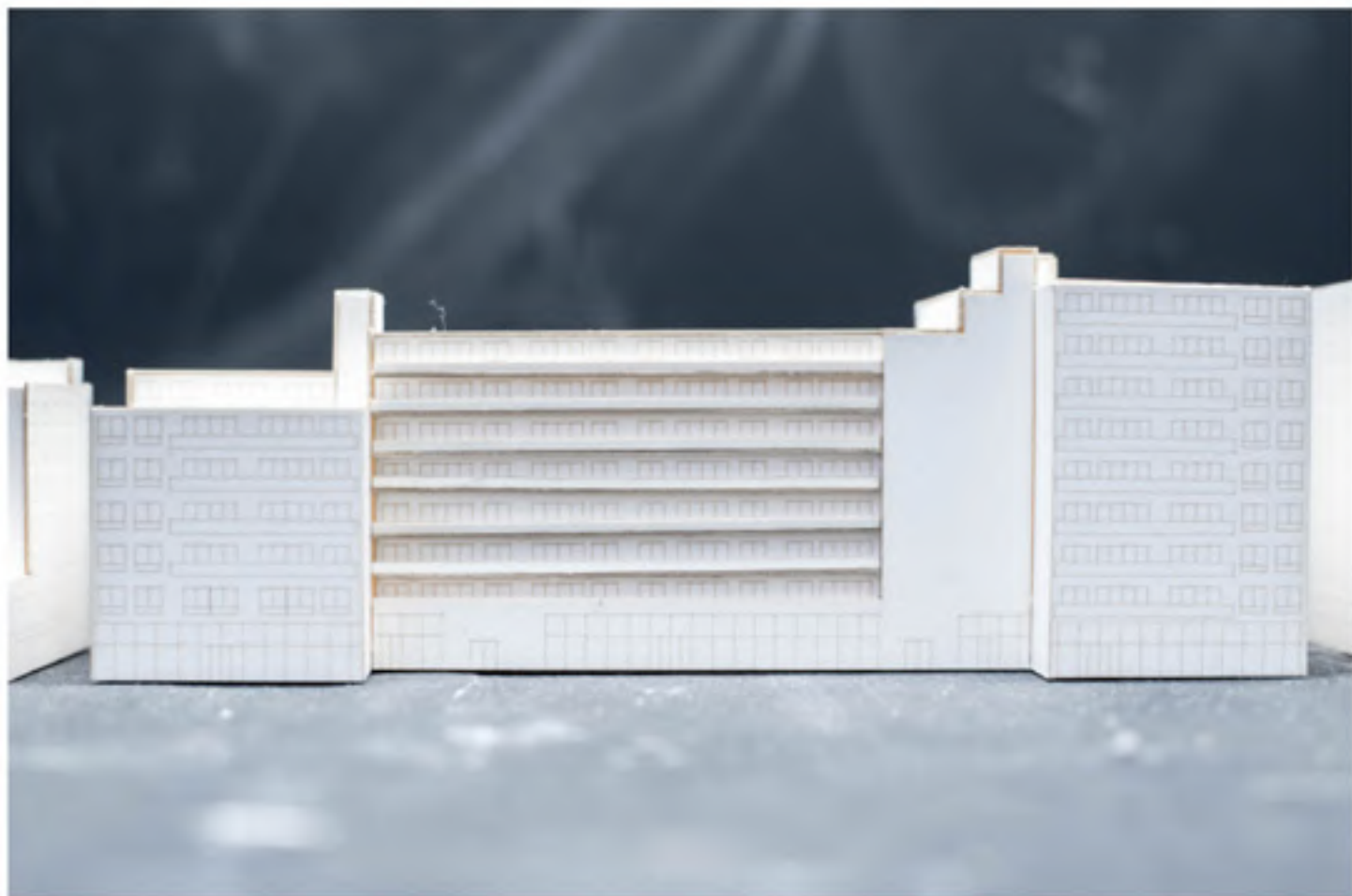


PRECAST MASONRY BRICK WALL DETAIL



1. METAL CAPPING
2. 4" THERMAL INSULATION
3. LIGHT WEIGHT SOIL
4. WAFFAL CONCRETE FLOOR SLAB
5. PRECAST MASONRY BRICK WALL SLAB
6. STEEL FRAME
7. 2" RIGID INSULATION
8. 2" WOOD DECK
9. FOAM INSULATION
10. 3" STEEL CORD
11. CHANNEL GLASS PANELS
12. 4' STEEL TRUSS
13. CIRCULATION CORRIDOR







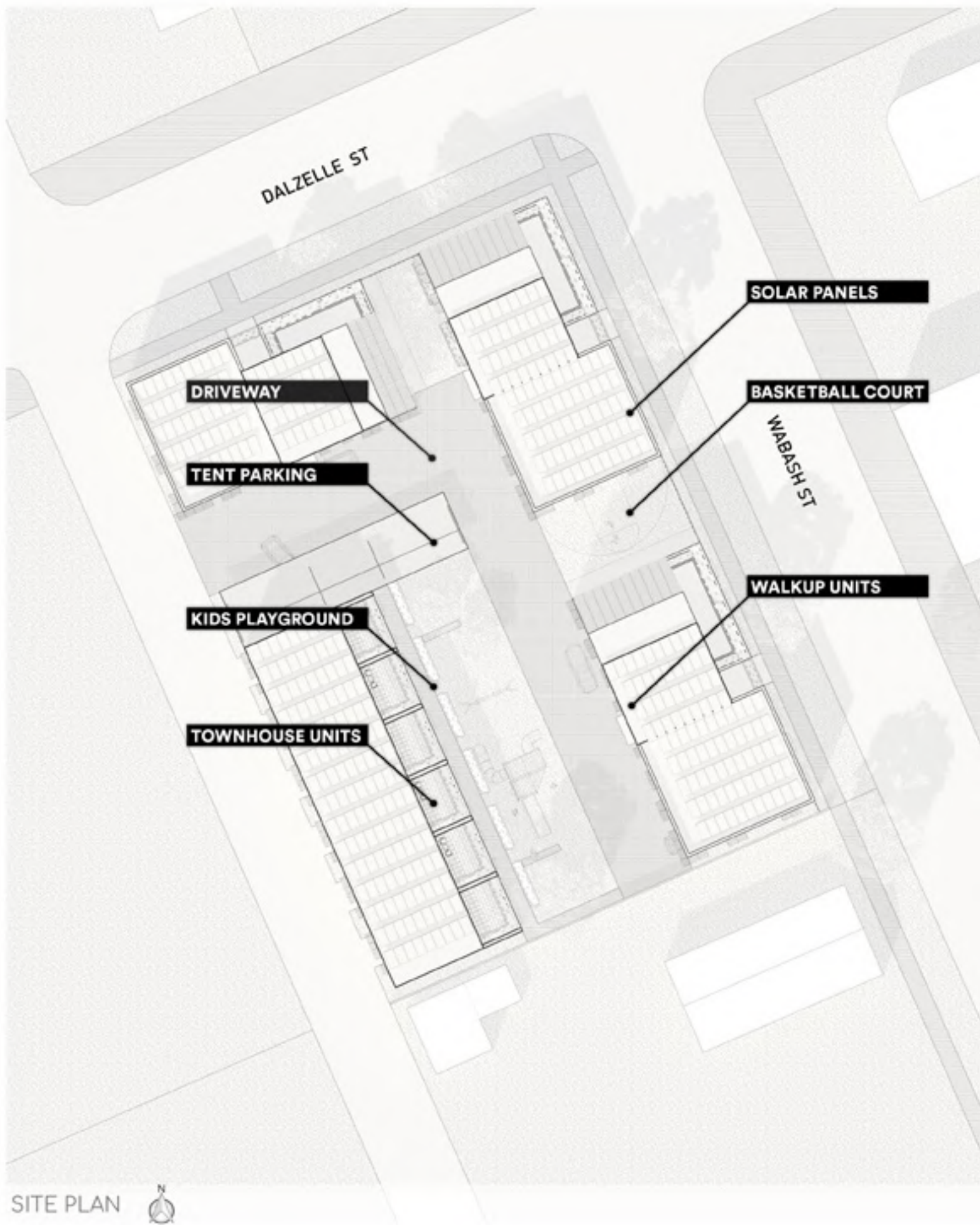
02 WALKUP UNITS

TYPE
SITE LOCATION
DATE
INSTRUCTOR
TEAMMATES

INTEGRATED STUDIO WORK
CROKTON, DETROIT, MICHIGAN
FALL, 2018
DOUGLAS KELBAUGH
CHENGYING GONG, TINKI ZHU

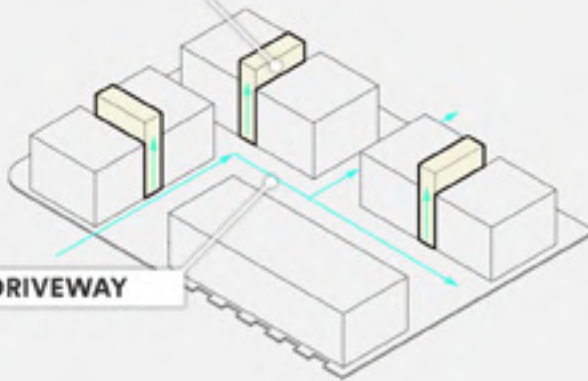


Walkup units combines with a Woonerf at center. The site is next to the historic landmark of Detroit, Corktown, and near the Michigan Central Train Depot owned by Ford Company. The Woonerf courtyard design allows residents to have more walkable spaces



WALKUP CORE

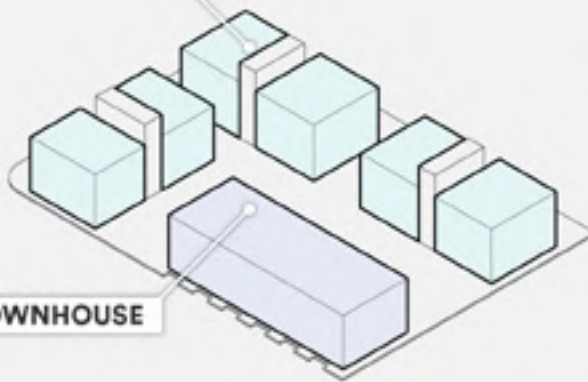
DRIVEWAY



Woonerf courtyard design provides residents more walkable spaces. Parking spaces are located on the ground floor of each building, which keeps the continuity of the public pedestrian.

WALKUP UNITS

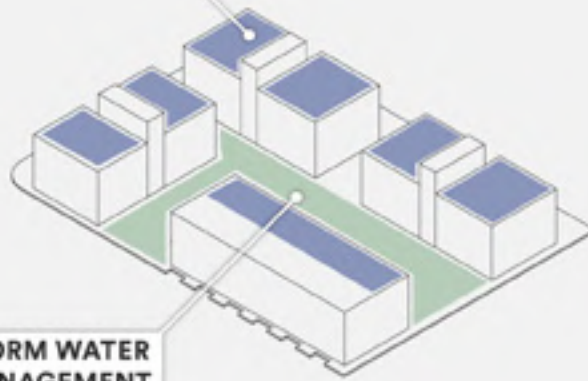
TOWNHOUSE



Walkup units are facing to the public main streets and the lower townhouse is located on the alley side, which allows enough sunlight come into the courtyard during the winter time.

SOLAR SYSTEM

STORM WATER MANAGEMENT



Sustainable design is one of the primary concepts of this project. The storm water collection system and the solar panels reduce the energy consumption.

Multi-Family Unit

On the second floor, there is the multi-family unit, which has one master bedroom and one bedroom for children.

Compares to the ADA unit, this unit type has more open spaces for the living room, which allows people to have small home party during holiday.



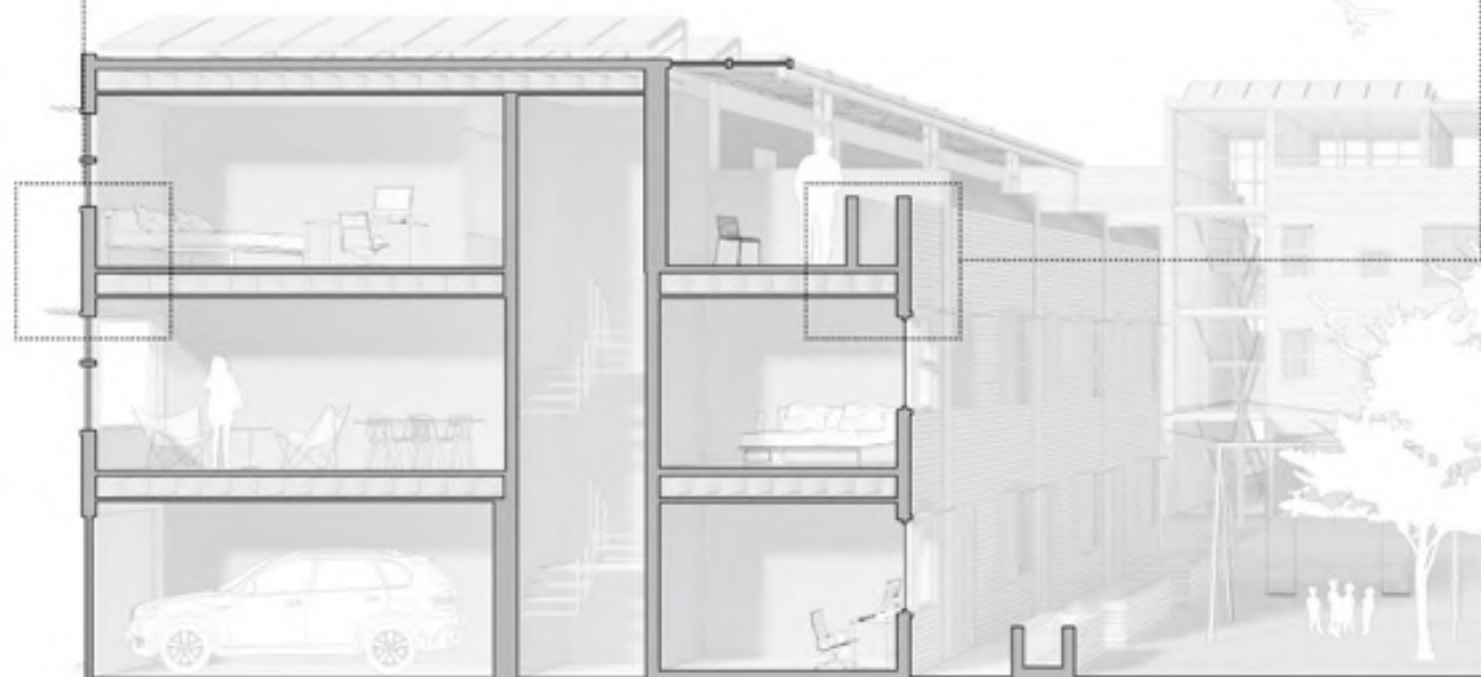
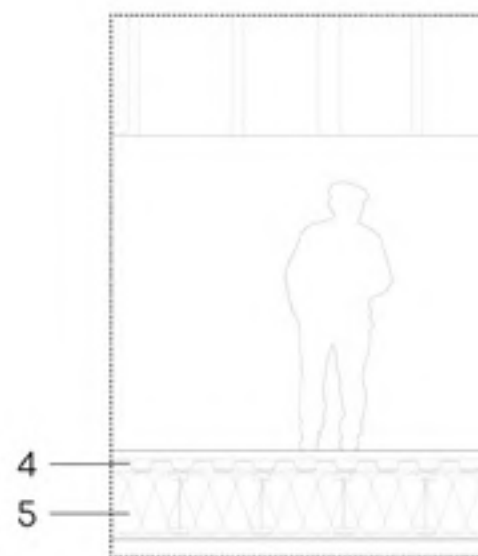
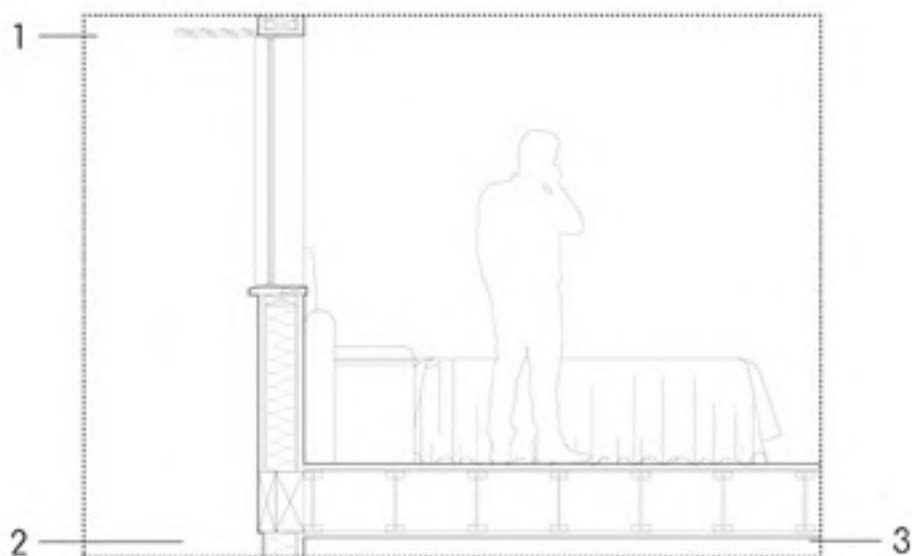
ADA Unit

The ADA single family unit is located on the ground floor, which makes it more accessible for the disabled.

The parking garage allows maximum 4 cars park next to each other.

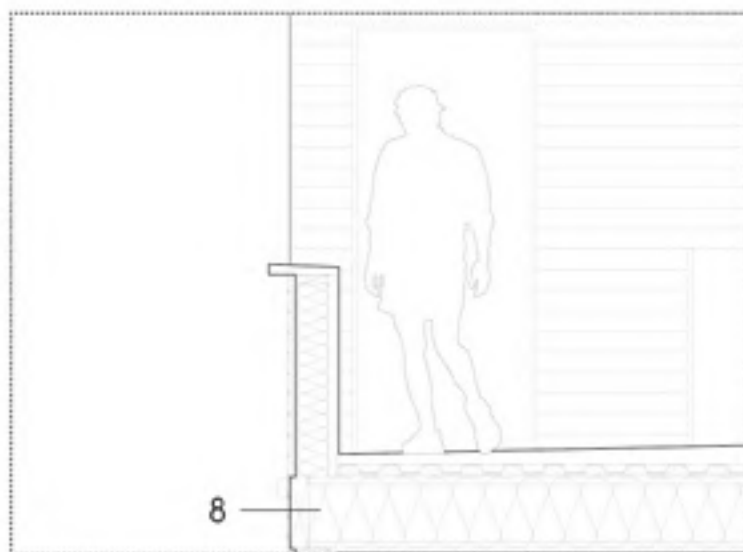
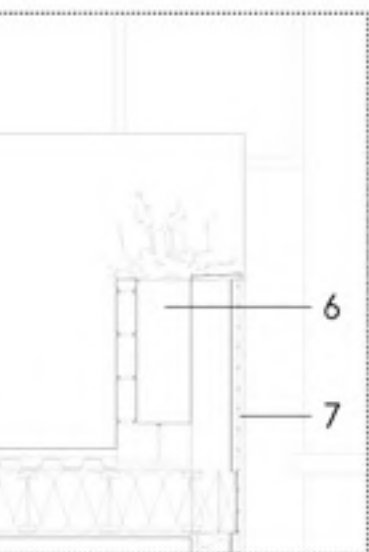






1. SHADING
2. 2X2 WOOD STUD
3. WOOD I-BEAM
4. ROOF METAL SLAB
5. FOAM INSULATION
6. ROOF PLANTER
7. WOOD CLADDING
8. HORIZONTAL WOOD BEAM

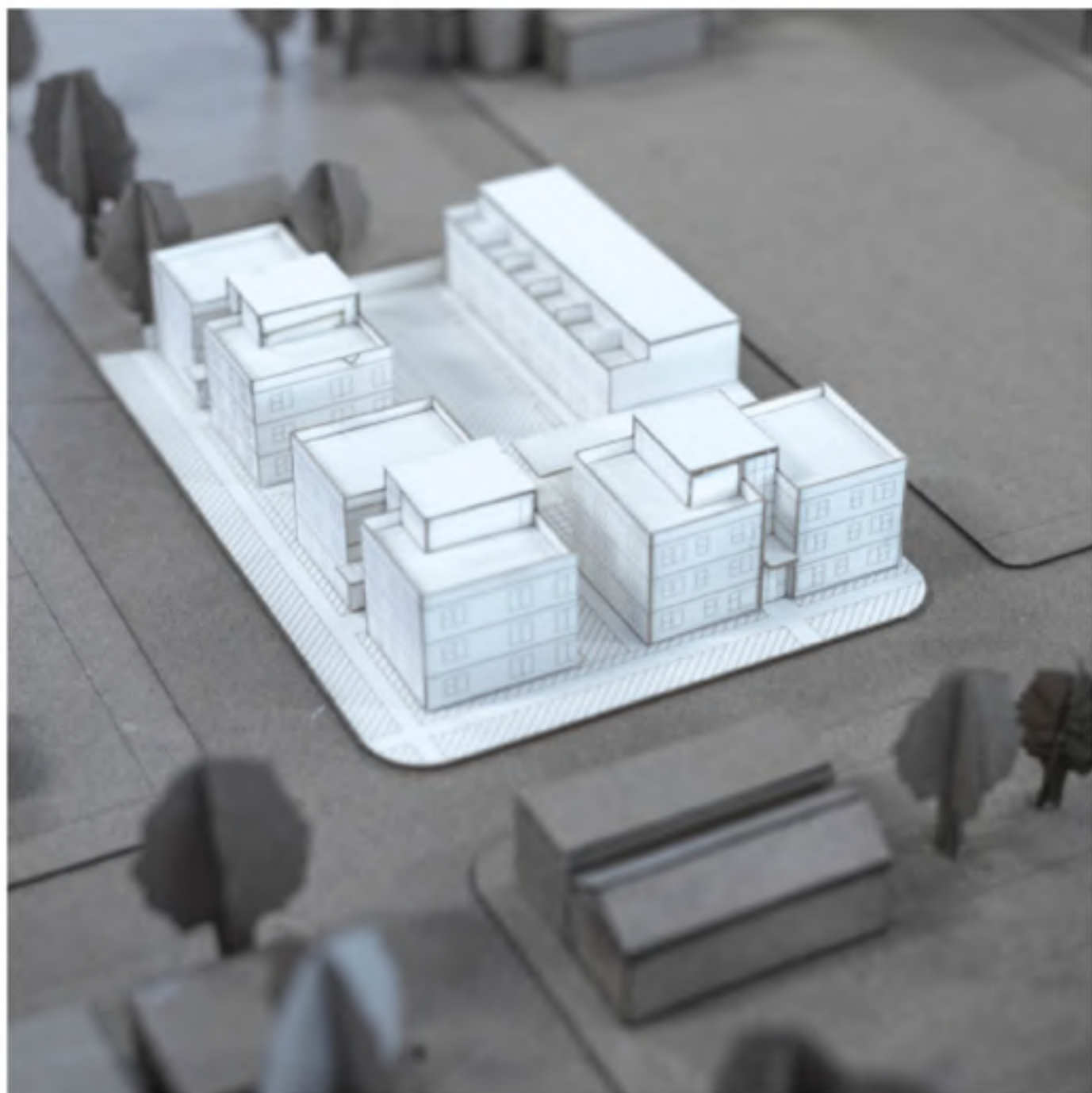
PERSPECTIVE



E SECTION











03 FIRESTATION 3

TYPE
SITE LOCATION
DATE
INSTRUCTOR

STUDIO WORK
ANN ARBOR, MICHIGAN
FALL, 2017
ANA MORCILLO PALLARES



Firestation 3 locates at Jackson Avenue, one of the busiest avenues in Ann Arbor. I am trying to integrated this new firestation with the existing entertainment infrastructures, such as the ice rink house, swimming pool and tennis courts. Also provide enough public spaces for local residents.

CIRCULATION

WALKING ROUTE

TRUCK ROUTE

ZONES

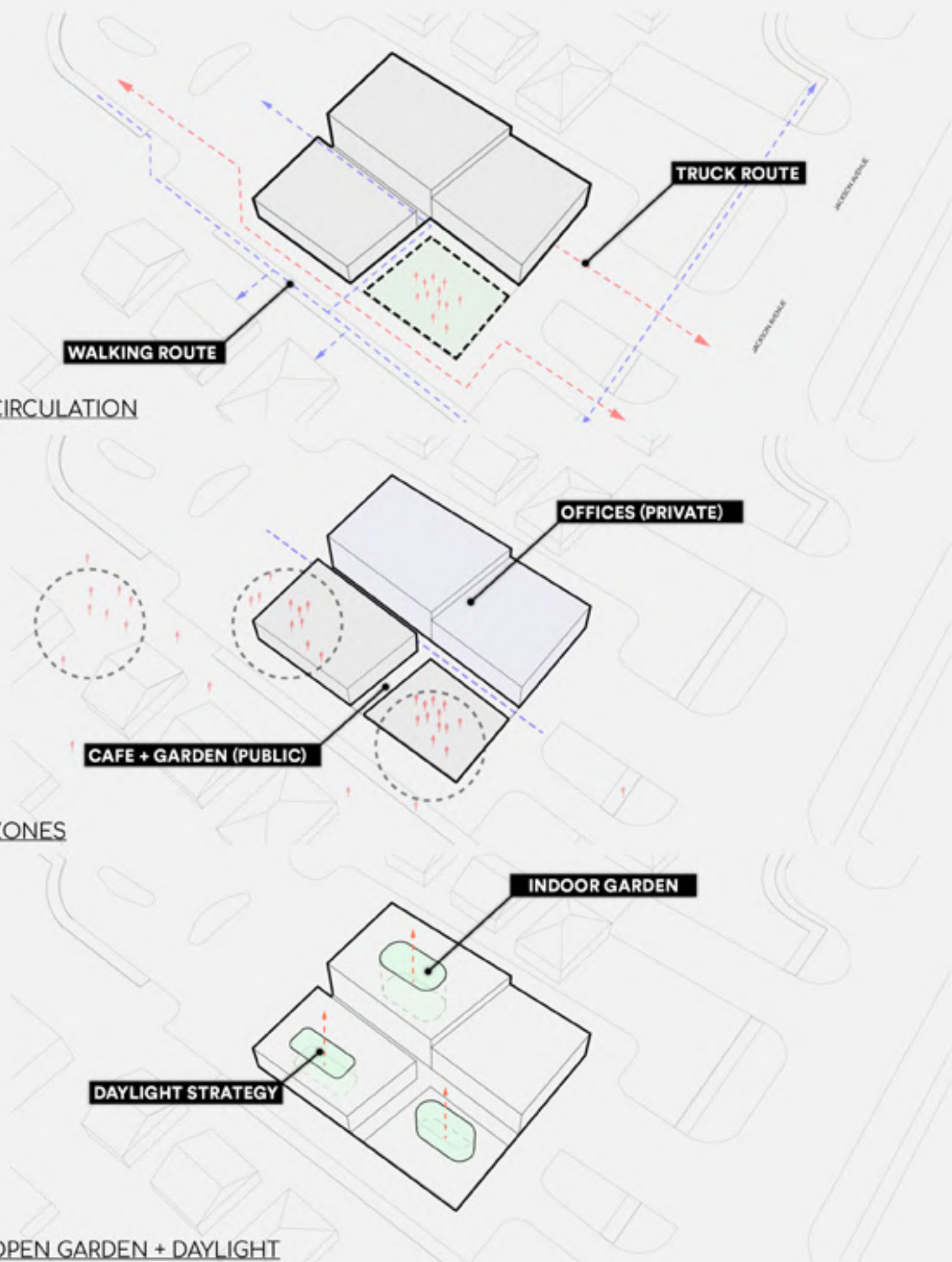
OFFICES (PRIVATE)

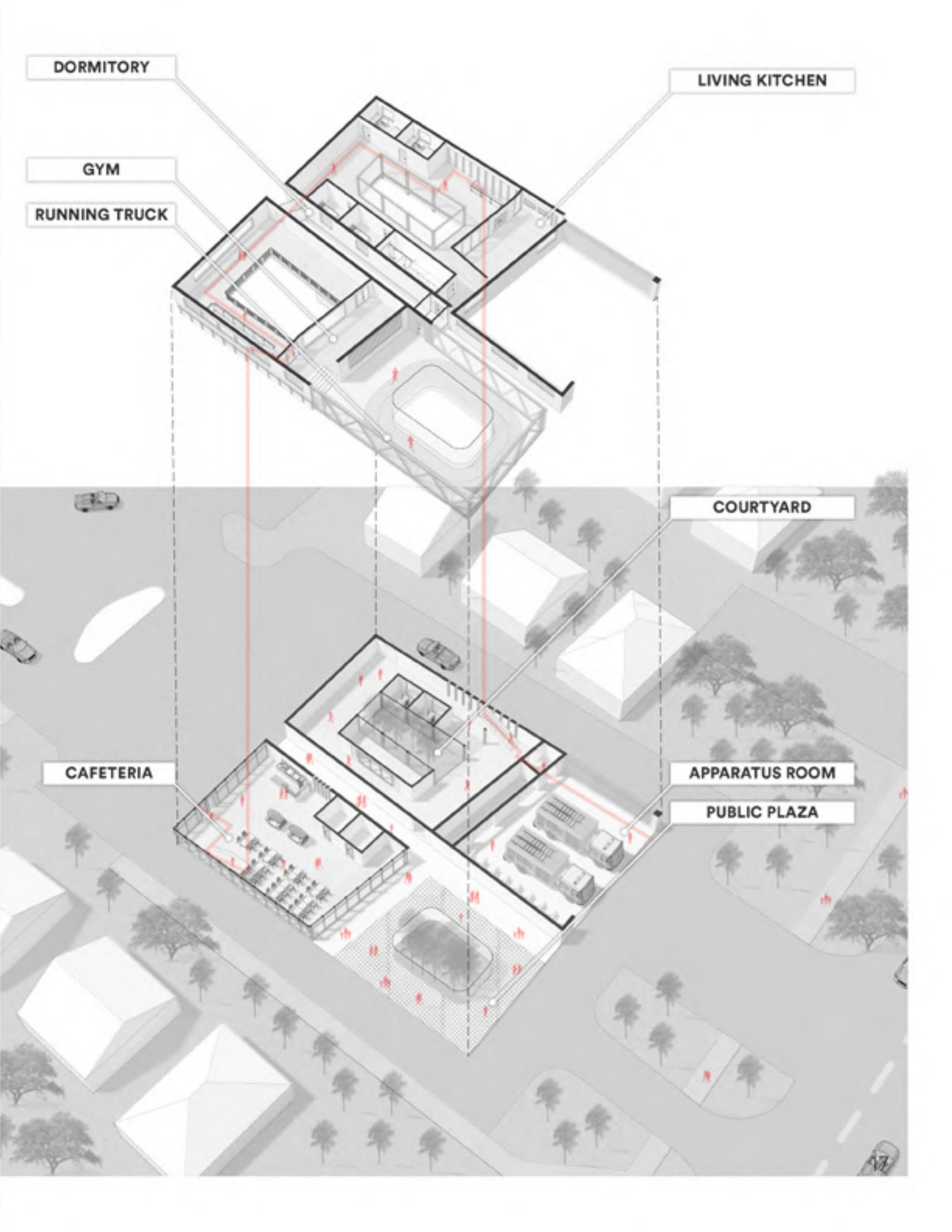
CAFE + GARDEN (PUBLIC)

INDOOR GARDEN

DAYLIGHT STRATEGY

OPEN GARDEN + DAYLIGHT





DORMITORY

LIVING KITCHEN

GYM

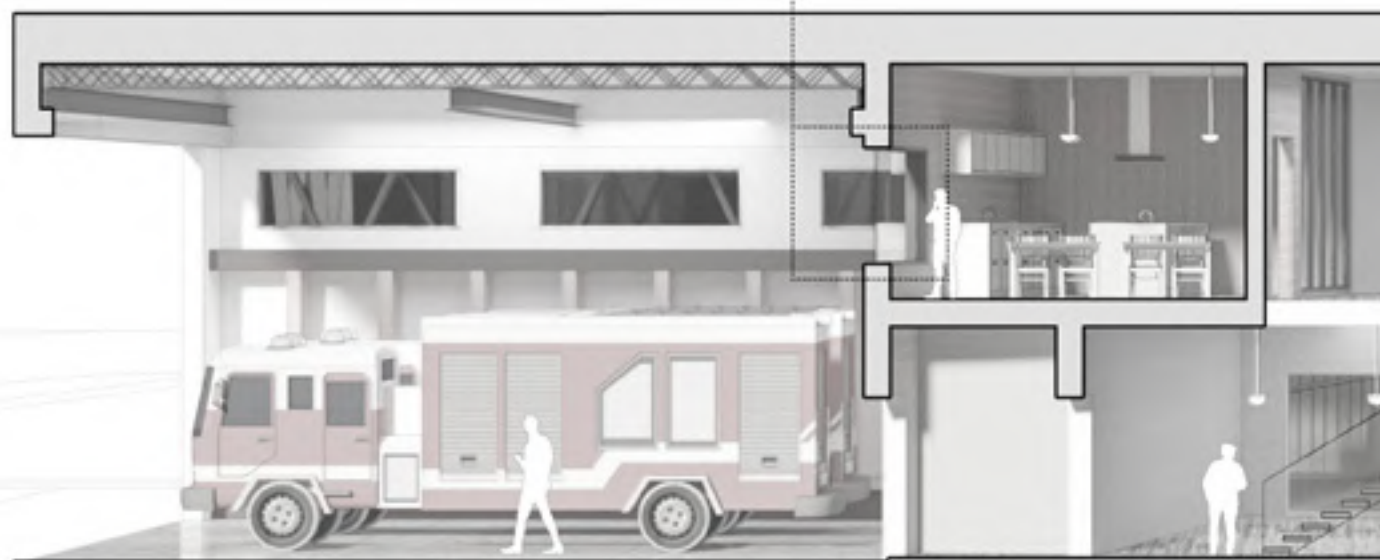
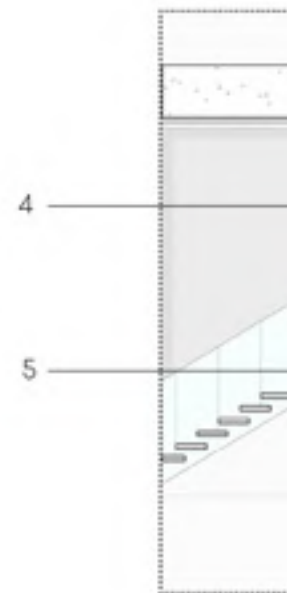
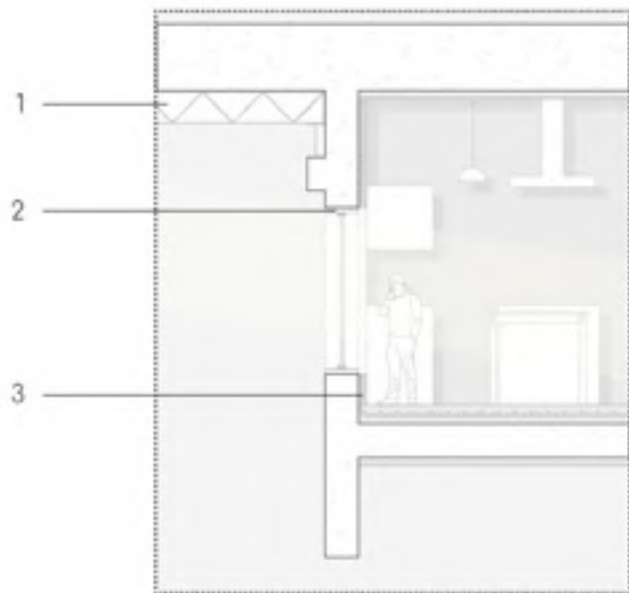
RUNNING TRACK

COURTYARD

CAFETERIA

APPARATUS ROOM

PUBLIC PLAZA



1. METAL TRUSS
2. STEEL WINDOW STUD
3. RIGID INSULATION
4. COURTYARD VIEW POINT
5. RAISED FLOOR
6. TYPICAL UNIT

PERSPECTIVE



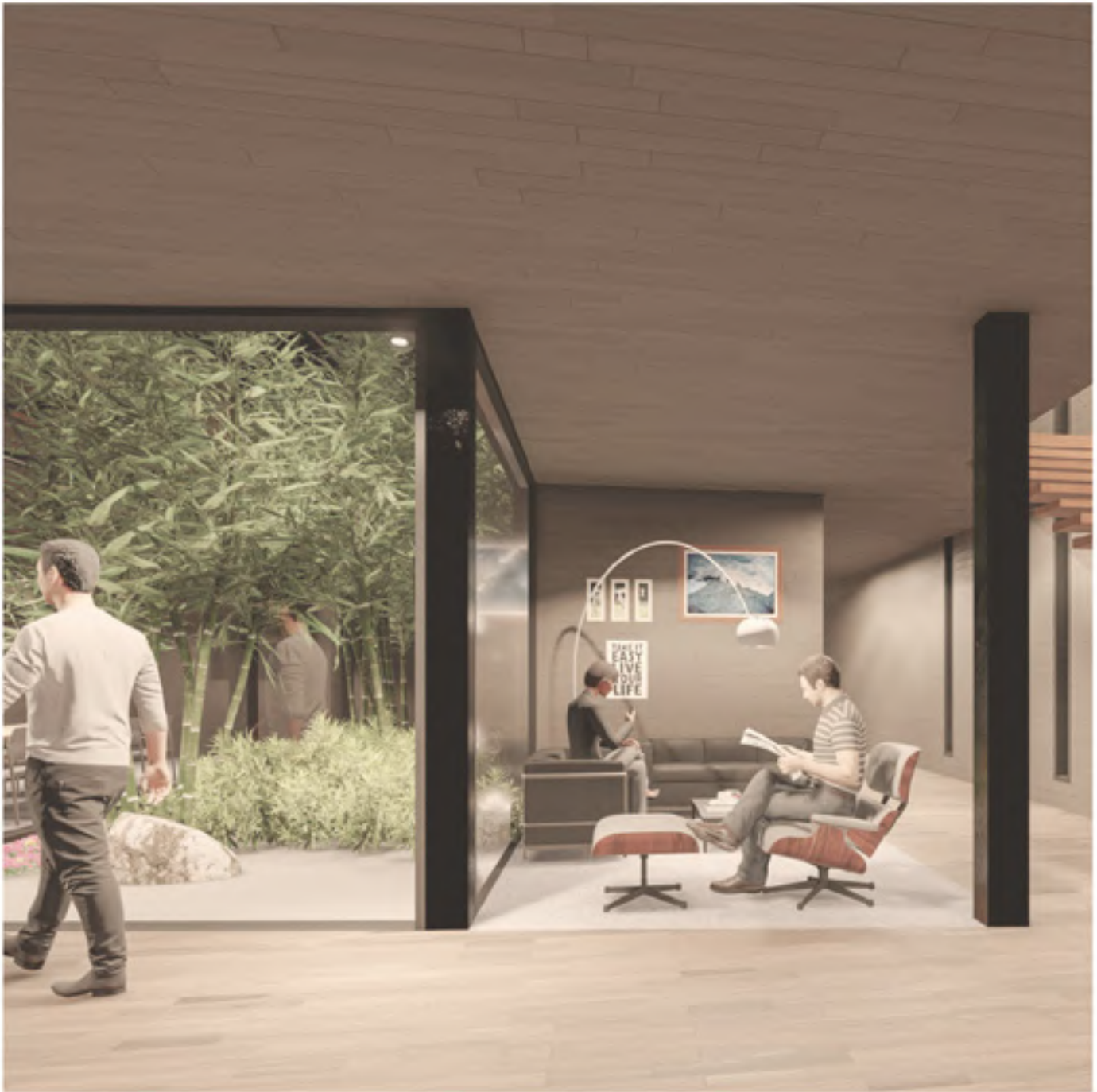
6



VE SECTION



OFFICE VIEW



HALLWAY VIEW



PUBLIC CAFE



KITCHEN VIEW



04 COMMON GROUND

TYPE

SITE LOCATION

DATE

COLLEAGUE

2016 Market Street Prototyping Festival

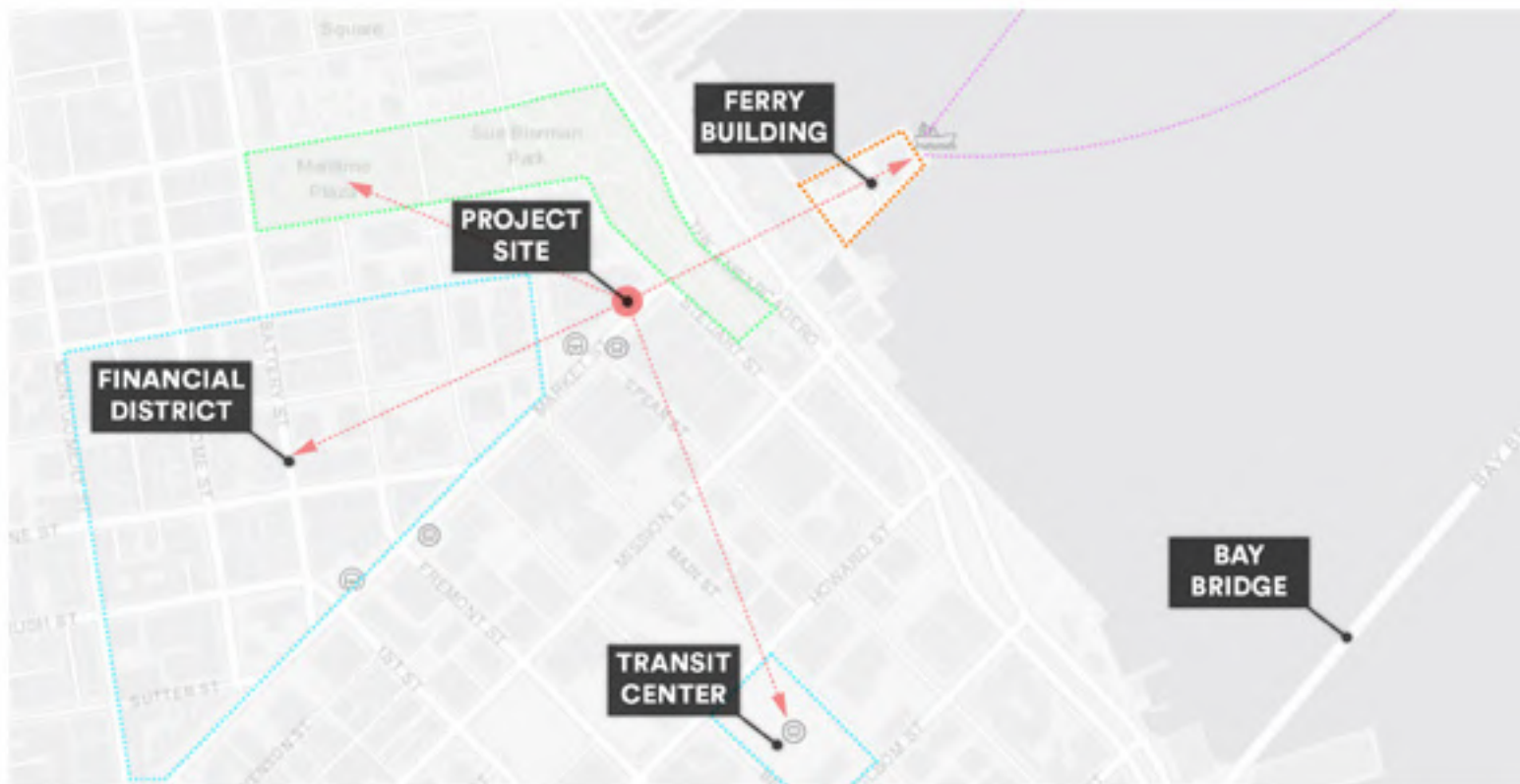
San Francisco, California

Summer, 2016

Derek Ouyang, Haobo Hu, Junhua Hwa

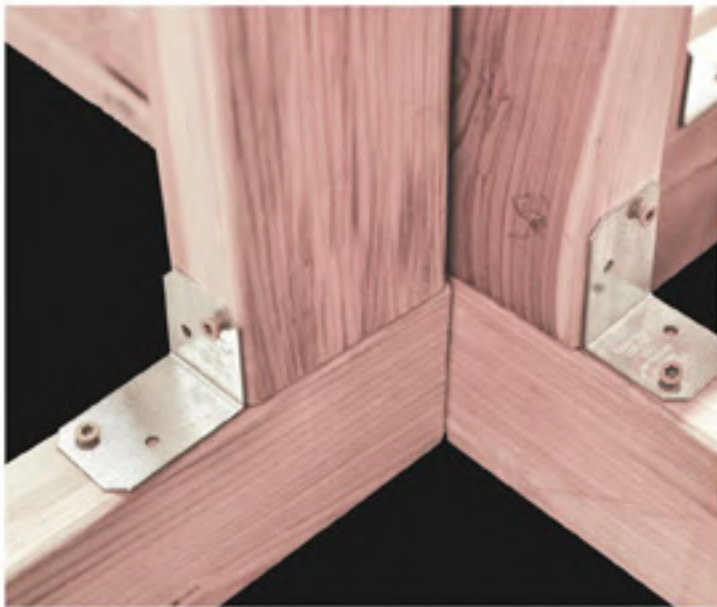


Common Ground is a sidewalk installation consisting of pairs of seats and floor panels which activate special features when stepped on simultaneously by two strangers. The concept is designed to adapt to any urban environment and to delight participants with surprises ranging from light and water to sound and motion. It creates a warm, social nook along Market Street that invites coffee drinkers and the public to sit, play and engage with one another



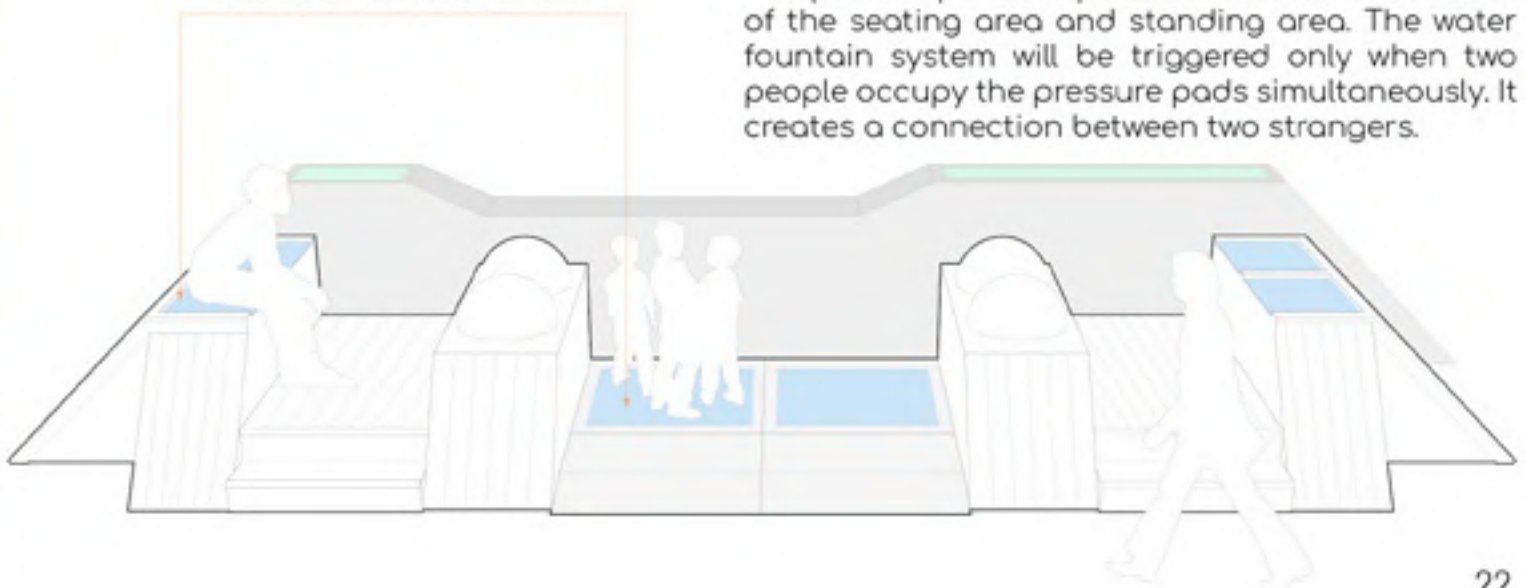
This prototype project is located at the 5 Embarcadero Center on the Market Street, San Francisco. It will be used as the outdoor seating area of the Philz Coffee. The space is limited since the obstacle of the existing landscape features and the on-site sculpture. The maximum usable space for this project is 23 feet x 7 feet. Also, according to the construction code, there has to be at least 10 feet pedestrian right-of-way space at the south side.



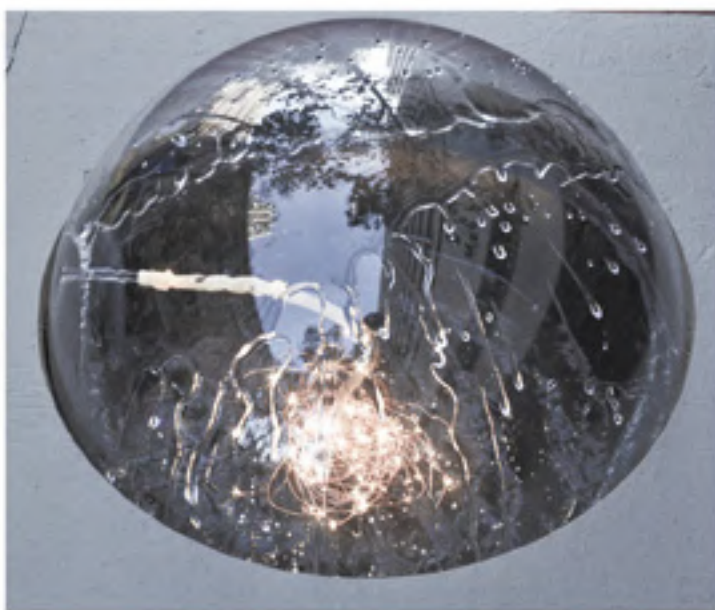


SENSITIVE PAD SYSTEM

Two pairs of pressure pads are located under both of the seating area and standing area. The water fountain system will be triggered only when two people occupy the pressure pads simultaneously. It creates a connection between two strangers.









05 THE LAST MILE

Awarded the 3rd place of the 42-hour design competition

TYPE
SITE LOCATION
DATE
DURATION

COMPETITION WON
ANN ARBOR, MICHIGAN
SPRING, 2015
42 HOURS

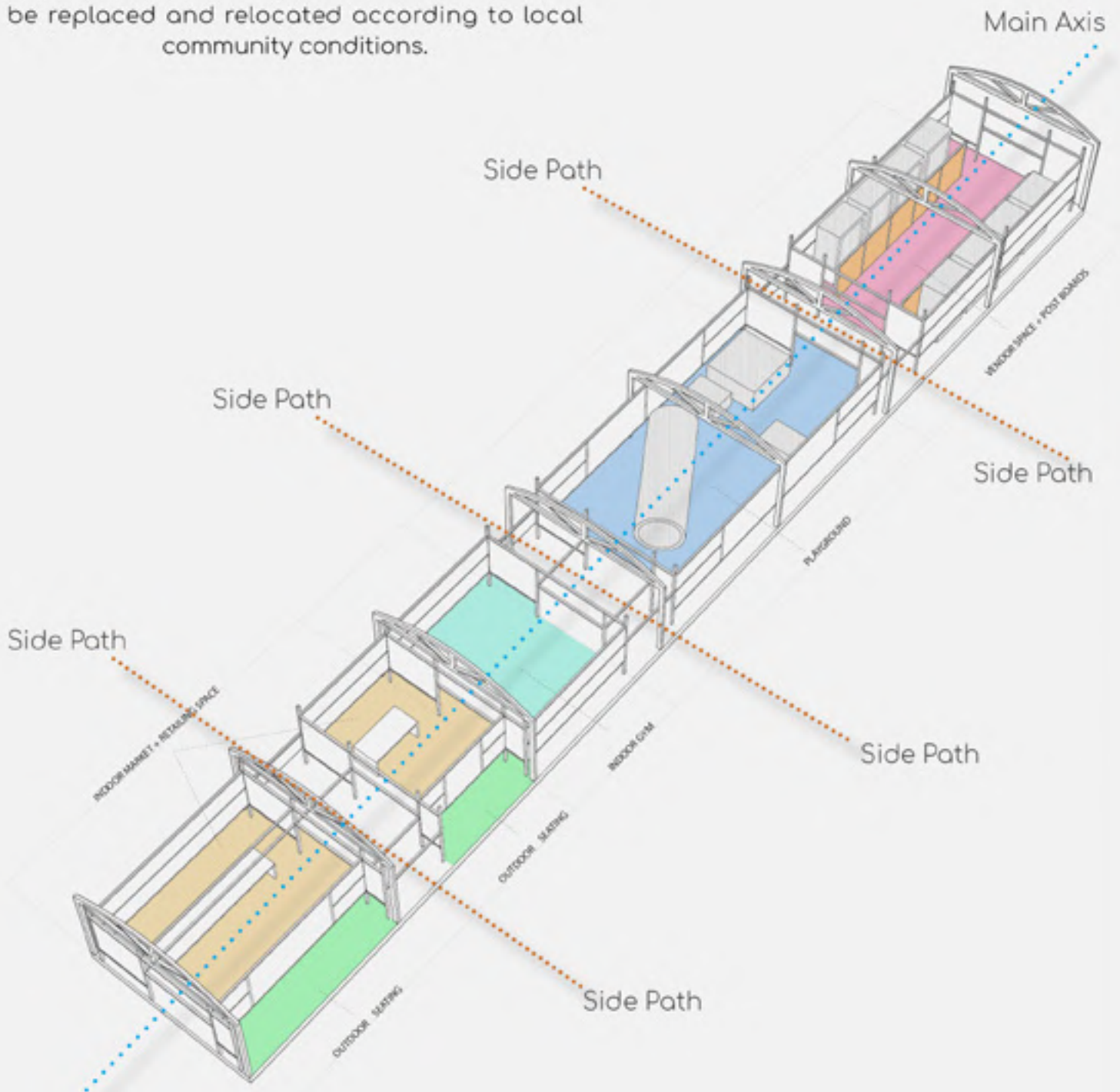


ion

ARK
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018
RS

The last mile issue increases commuting time of people who do not own personal transportation tools. This project provides the basic services for people's daily life, such as convenient store, advertising board and vending machines. This pavilion brings convenient and can smoothen the last mile issue.

Public Market, Indoor Gym, Playground, Vendor Space and the Postboard Area are critical programs contained by this linear pavilion to attract the public. Each program can be regarded as individual modules, which can be replaced and relocated according to local community conditions.



PROGRAMS



The entire pavilion is covered by porous roof made of recyclable materials. The wood beam and trusses form the major structure bearing the load. This pavilion has one central hall way and three path ways on both sides, separating each program.

ENTRANCE VIEW







06 OTHER WORKS

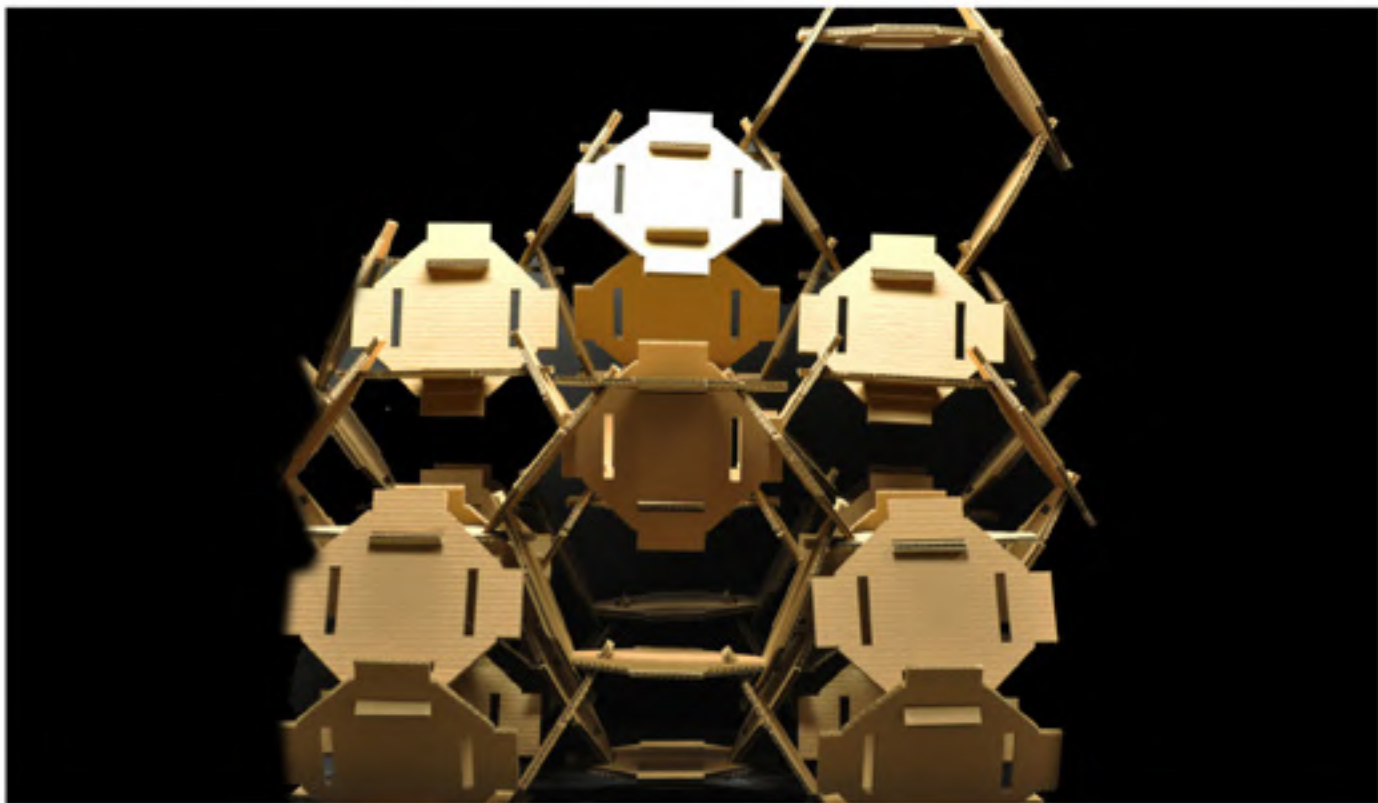
TYPE
DURATION

FABRICATION + REPRESENTATION PERSONAL WORK
2016 -

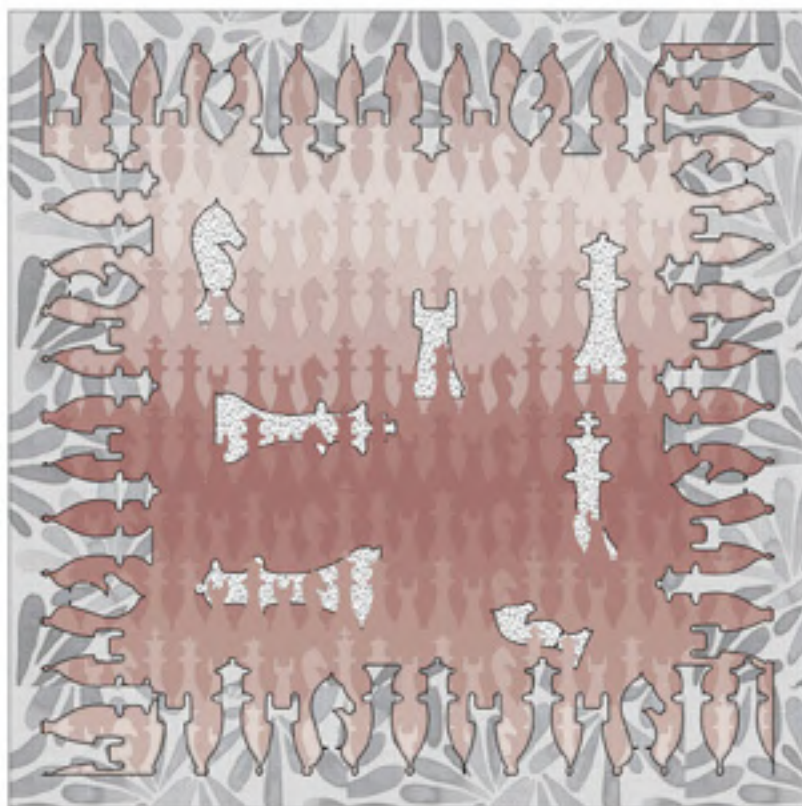
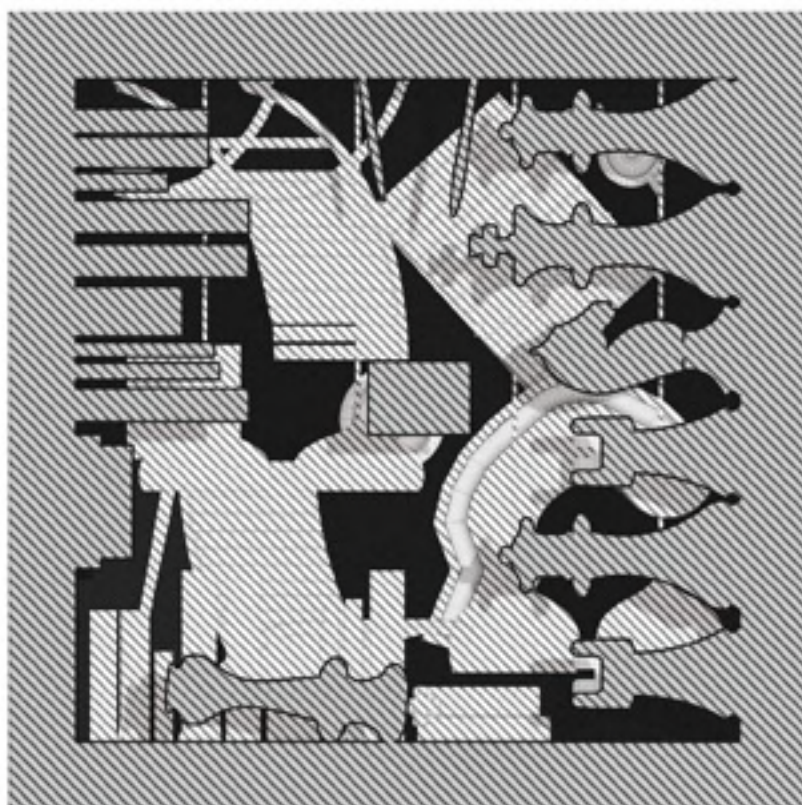


Architecture is not only about buildings, it also consists funitures, fabrication technique and representation skills. Personally, I am a big fan of traveling and photography, they can always inspire me about my design ideas.

STOOL AND PLANTER DESIGN



PATTERN REPRESENTATION



PLYWOOD COLUMN DESIGN



PHOTOGRAPHY

