

### **TERRACOMM**

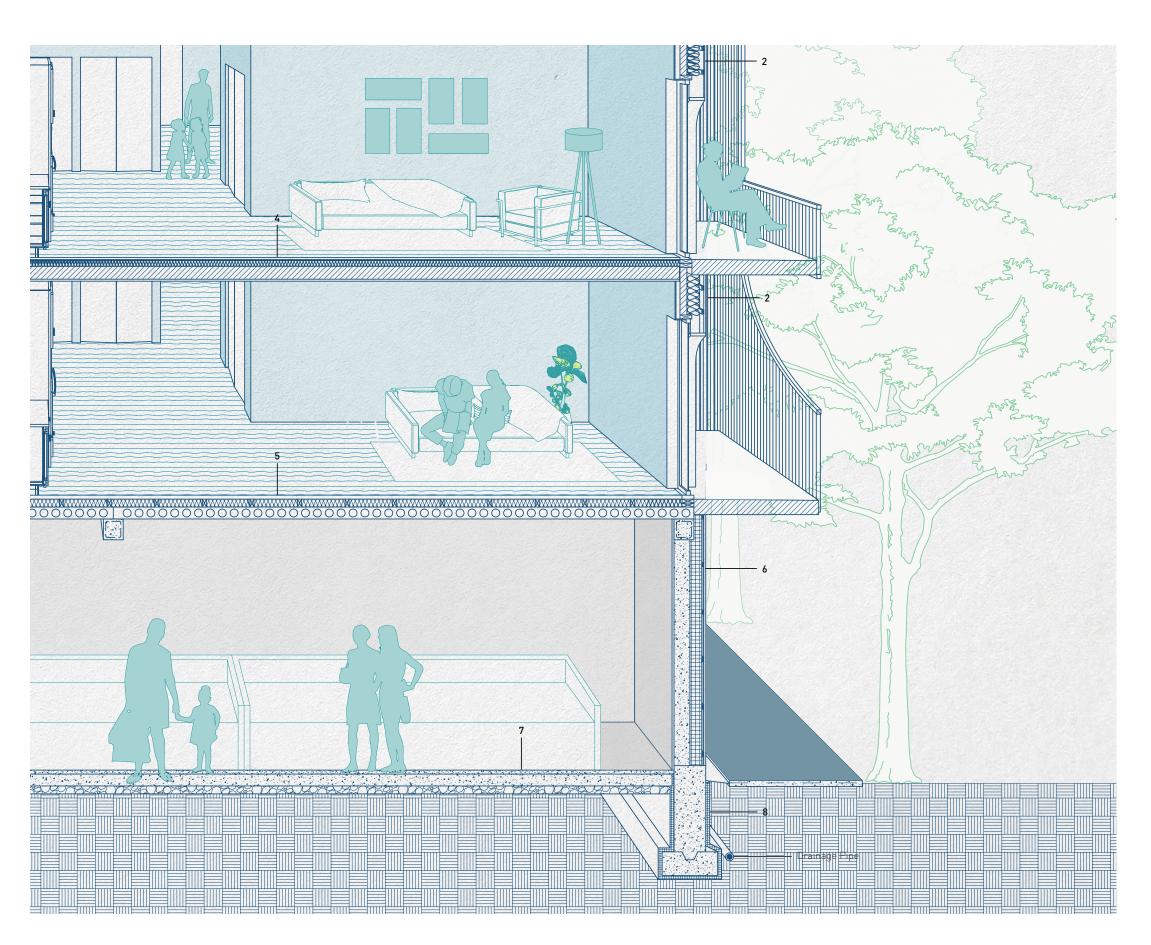
Project Location: 2000 S. Industrial Hwy Ann Arbor, MI, 48106

Project Team Members:

Karel Venegas-Cabrera Xin Li Yikai Su

Systems Studio Section:

Ellie Abrons Meredith Miller



### **CONTENTS**

Project Narrative and Statistics

Design Proposal

Assignments

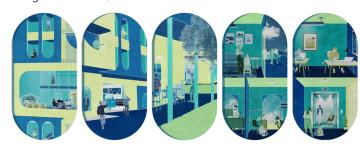
Precedent Studies

Consent Statement

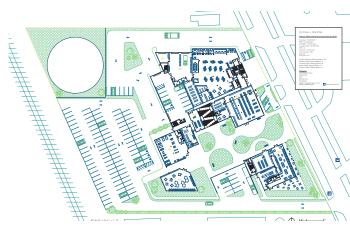
#### **PROJECT NARRATIVE**

Located at 2000 S Industrial Hwy, our site is aimed to provide affordable housing and services for families and individuals looking to live with other people. This site is currently home to the Ann Arbor Housing Commission main office, parking for maintenance vehicles, maintenance department, gas pumps, and charging stations for City EVs.

Our group decided to develop a mixed-use building to bring the community together to one location and draw connections between residence, neighborhood, and environment.

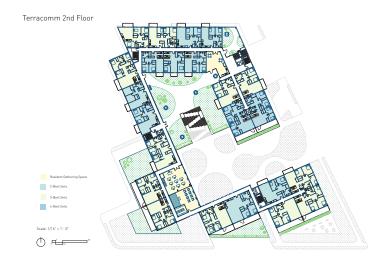


Keeping the AAHC and all maintenance facilities on the north side allows foreasier access for the people who work there. As well as maintaining easy access to the water tower on site. There is a separate road and parking spaces for all vehicles related to the AAHC and its visitors. There is about one parking spot per unit plus more for visitors and parking for people accessing our commercial programs. There is also bike parking on site for residents and visitors.



We aim to develop accessible welcoming spaces for our residents. The Building has a total of 7 stories, with the ground floor being commercial and office space. Floors 2-7 are all residential. Our ground floor programming includes a Convenience store, a food bank, mail service, a restaurant, a gym, and a study lounge.

We hope to connect residents to the natural environment by providing different scales of outdoor space within the building. There is a ground level courtyard for residents and visitors to interact with. There is a second floor courtyard mainly for residents to use and access their units.



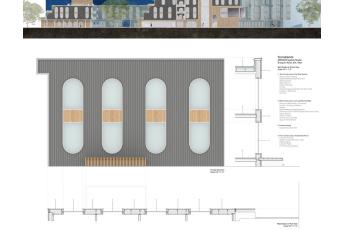
All south facing units have a terrace which provides a bigger more private outdoor space within your unit/home. Every unit aside from the "Terrace Units" have a balcony for immediate and private access to the outdoors.



There are 9 unit types. with bedroom ranging from 2-4 bedrooms. Sprinkled throughout the building there are 2 story voids that act as covered outdoor spaces. These voids are to be used by residents and their guests. The voids can be used as an open air lounge, spaces to host private parties/events, as well as gardening.



Our windows are all rectangular double-hung windows. Our facade is made of corrugated metal panels (grey). Which create the pill shape of the windows seent hroughout the entirety of the building. Our balconys are wrapped with Wood slats to create contrast on the facade as well as privacy for residents.



### **TERRACOMM**

Karel Venegas, Xin Li, & Yikai Su Abrons/Miller

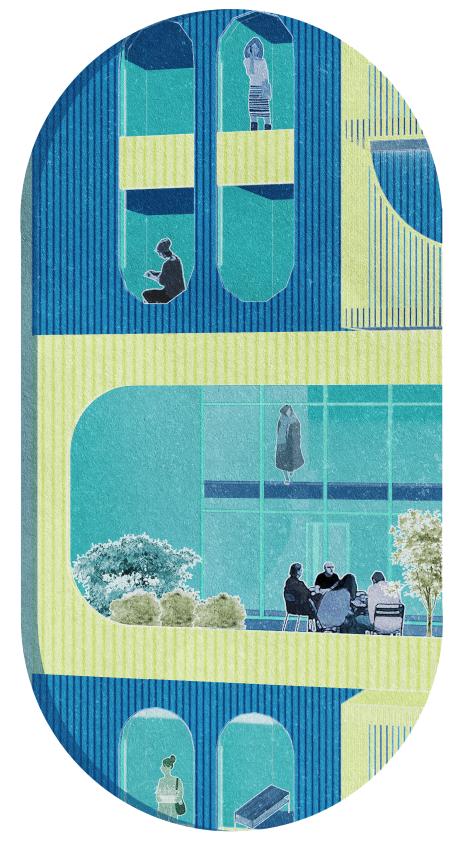
### **Project Statistics**

Total gross floor area	227,648 sf
Lot area	174,733 sf 4 acres
FAR	1.3
Number of floors	7
Building height	75'-0"
Dwelling unit count and bedroom count 2-4	101 Units 4 Bedrooms
Dwelling units/acre	20
Total area of commercial space	47,269 sf
Total net leasable area	186,098 sf
Efficiency rate in %	68%

Building Typology	Single and Double loaded
Number of on-site parking spaces	corridor
Parking spaces per unit	1.0

Unit Access typology









GREEN SPACE ANN ARBOR HOUSING COMMISSION

COMMERCIAL SPACE



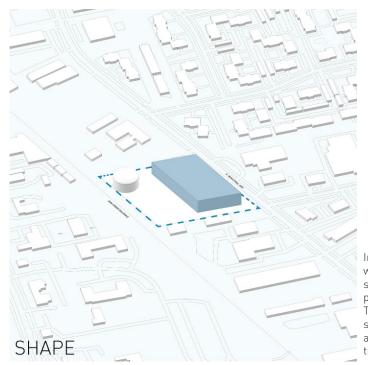




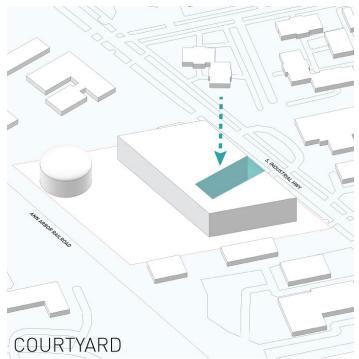


# AFFORDABLE HOUSING FOR FAMILIES AND INDIVIDUALS

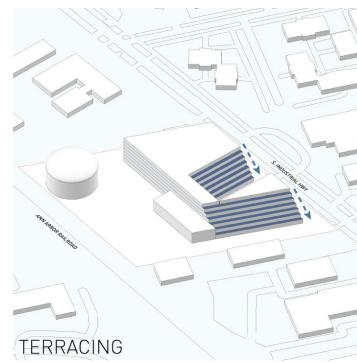
We aim to develop accessible welcoming spaces for all our residents.



Initially our idea was to keep the same shape of parallelogram. This for ease of site organization and to challenge the floor plans



Because our demographic is mainly families, a courtyard for kids to play or for spending time outdoors would be necessary



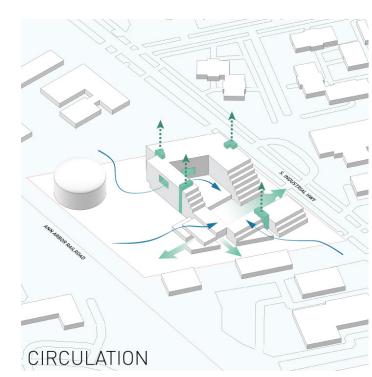
In addition to keeping the site shape we also stuck to south facing terraces to provide residents more views, sunlight, and private outdoor space in their unit



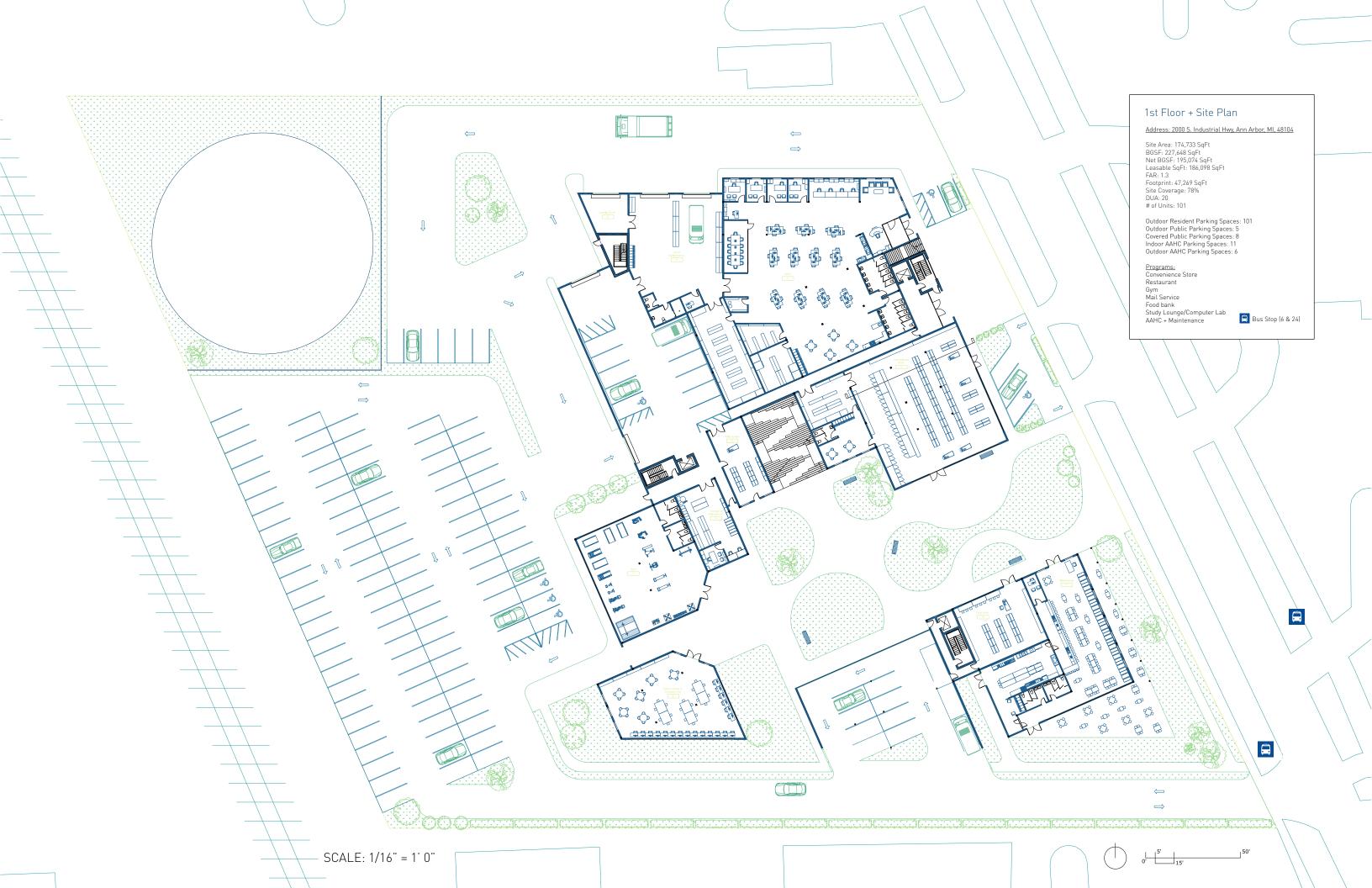
For more access to sunlight there is now a raised courtyard and less floors on the south side for more sunlight access to both courtyards



Green roofs have been added to the south side for more green space as well as a water collection system



There are cores of vertical circulation. Voids in our building will provide cross-ventilation, sunlight, as well as a playful facade and add to our different scales of green space



## Terracomm 2nd Floor



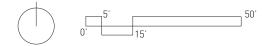
Resident Gathering Space

2-Bed Units

3-Bed Units

4-Bed Units

Scale: 1/16" = 1'- 0"



## Terracomm 4th Floor

2-Bed Units

3-Bed Units

Scale: 1/16" = 1'- 0"





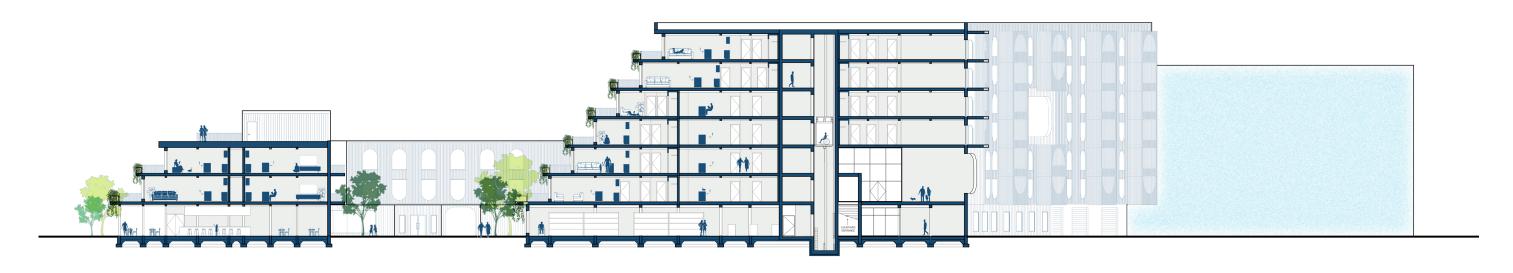
Total # of Units in Building: 101



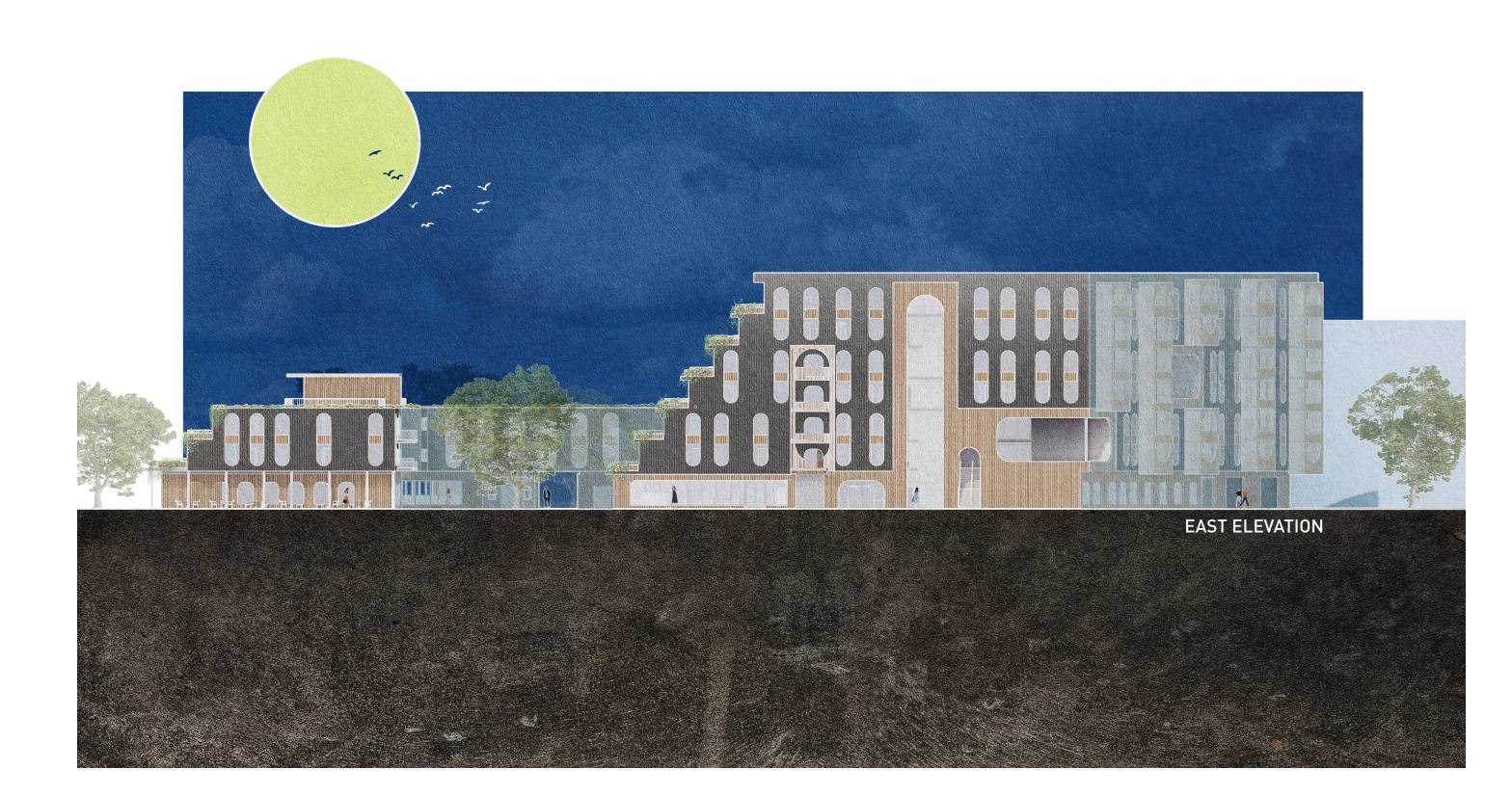
TYPE: T2A 3 Bed/1.5 Bath - "Terrace Unit" - 1,080 SqFt - Total: 3

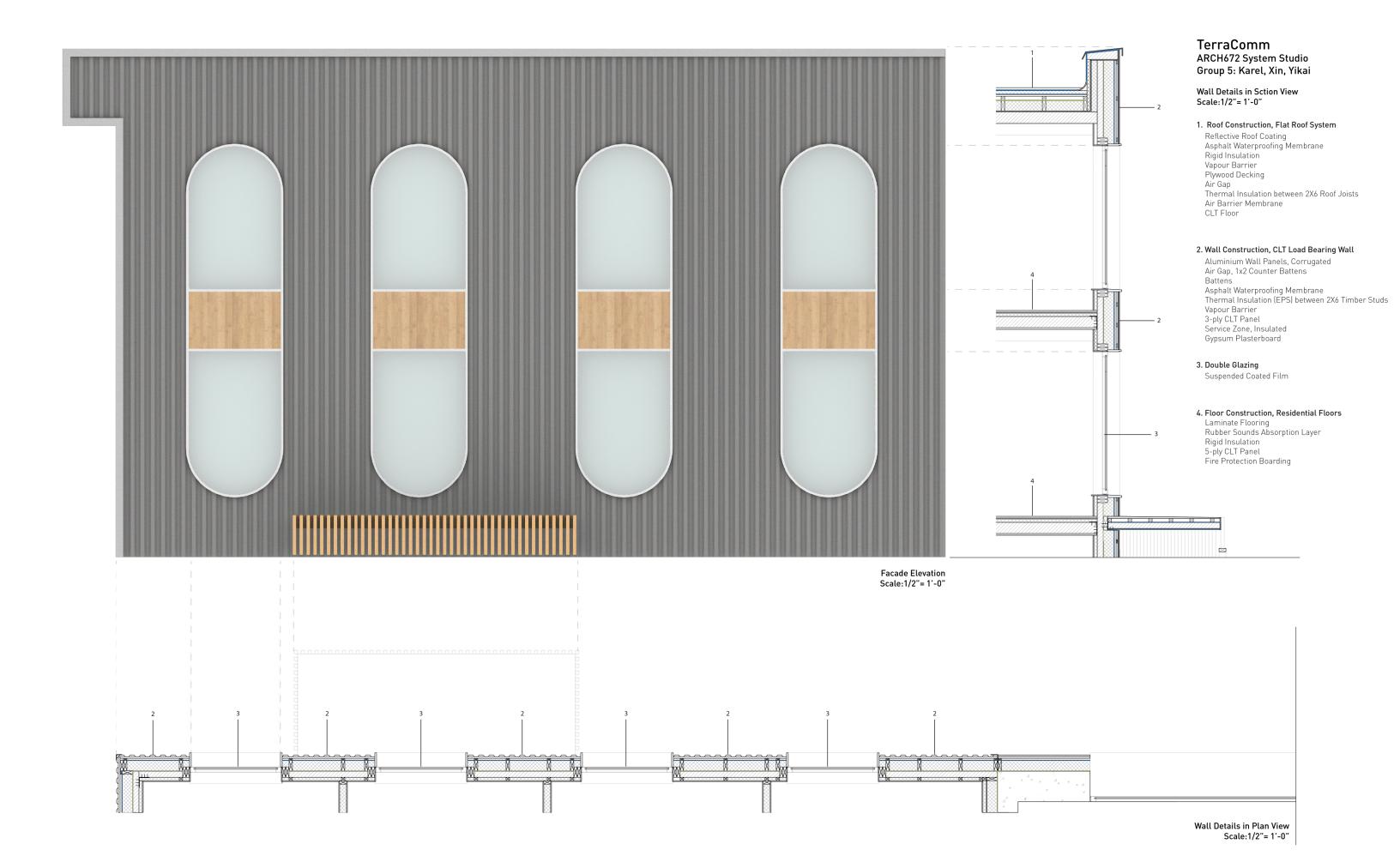
TYPE: B1A - 3 Bed/2 Bath - Corner Unit w/ Balcony - 1,350 SqFt - Total 14

45' -



**NORTH-SOUTH BUILDING SECTION** 





#### TerraComm ARCH672 System Studio Group 5: Karel, Xin, Yikai Wall Section Details Scale:1/2"= 1'-0" 1. Railing Construction Transparent Aluminium Panels, Corrugated 2. Planter Box Growing Medium Drainage Layer, Water Collection Pipe Waterproofing Membrane Concrete Planter Box, with Wooden Cladding 3. Floor Construction, 2nd Floor Reinforced. Concrete Beam Laminate Flooring Waterproofing Membrane Thermal Insulation Hollow-core Concrete Slab – Header 4. Wall Construction, 1st Floor Wooden Cladding Air Gap, 1x2 Counter battens Asphalt Waterproofing Membrane Thermal Insulation (EPS) between 2X4 Timber Studs Vapour Barrier Concrete Wall Gypsum Plasterboard 5. Storefront Windows Suspended Coated Film 6. Ground Floor + Foundation Rustication Strip-Concrete Floor Finishes Reinforced Concrete Slab Vapour Barrier Rigid Insulation Crushed Stone 7. Foundation, Strip Foundation Rigid Insulation Bitumen Paint Foundation Footing, 42" Deep



Facade Elevation Scale:1/2"= 1'-0"

