

Architecture Portfolio | Yuyan Chen



Southern California Institute of Architecture
Master of Architecture I
2020 - 2023

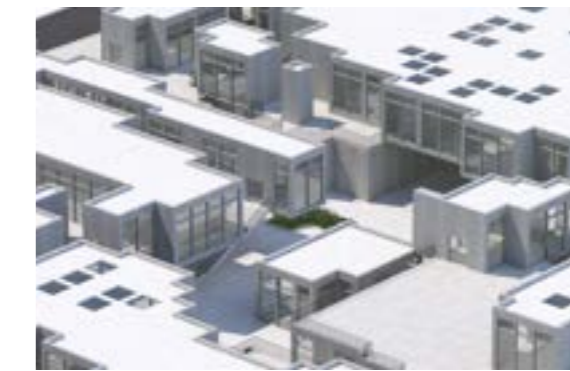
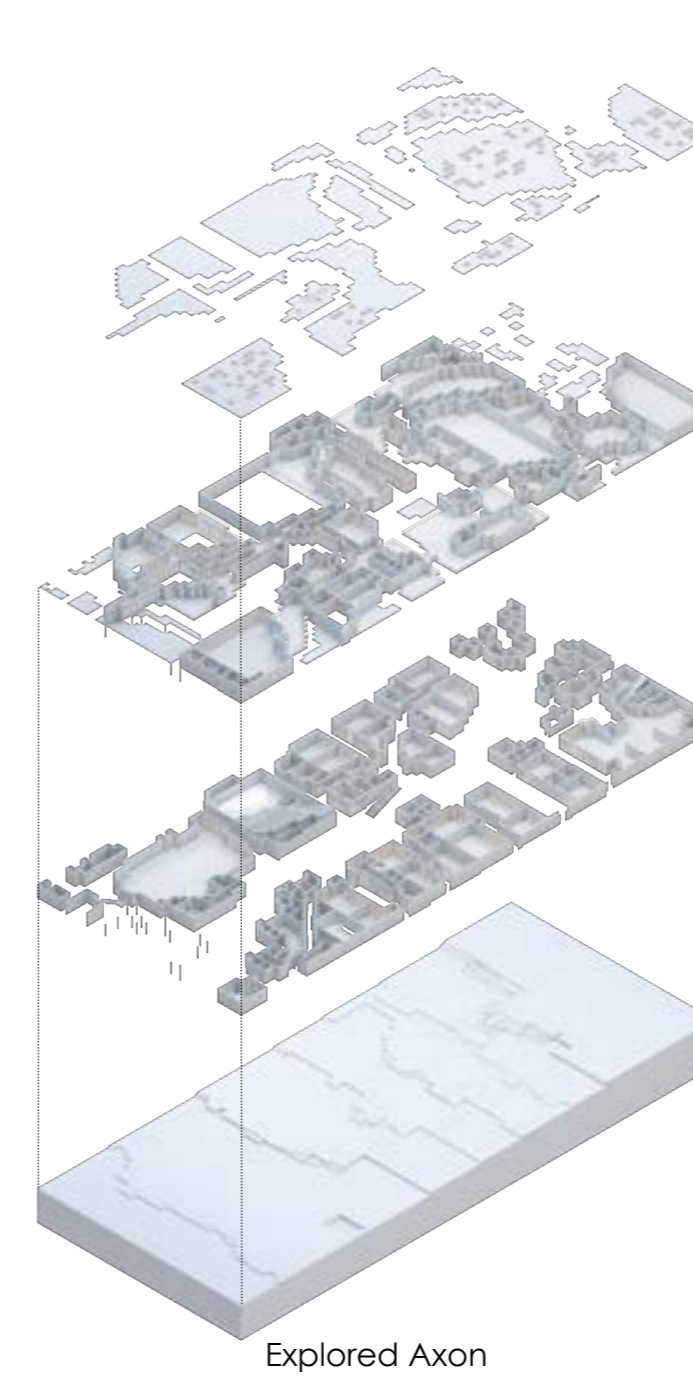
01 | Double Mat-Building | Art School

Fall 2021
Instructor: Peter Trummer
Assistant Teacher: Julia McConnell

This project approaches the Double Mat as a series of pixelated mass-void relationships that becomes stacked into a double.

It designed for a high school for performing arts at 150 S Burlington Ave, Los Angeles, CA 90057. The concept revolves around a dynamic interplay of positive and negative pixels, representing interior and exterior spaces, respectively. Circulation pathways are strategically positioned within irregular pixels to seamlessly connect different areas. A wide-open boulevard gracefully runs through the central massing of the building, creating a series of terraced landscape conditions that elegantly address the site's slope.

The outer border is deliberately thickened, providing a striking contrast to the lightness and transparency of the interior boulevard, which houses the public programs. The carefully sculpted and stepped ground conditions allow the building to fluidly navigate between being embedded in the ground floor, where it forms terraces, and floating above in the case of the upper, more privatized classrooms.

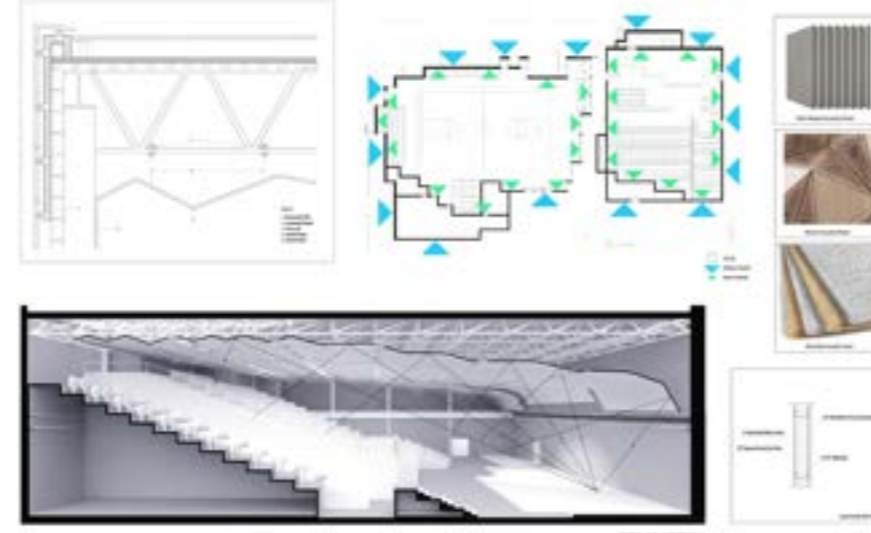


02 | Double Mat-Building | Design Development

Spring 2022

Instructor: Herwig Baumgartner, Scott Uriu
Group Member: Lejian Ouyang, Jiaxin Zhao, Bingkun Liu, Jiehao Wang, Haocun Zou, Rui Zhao

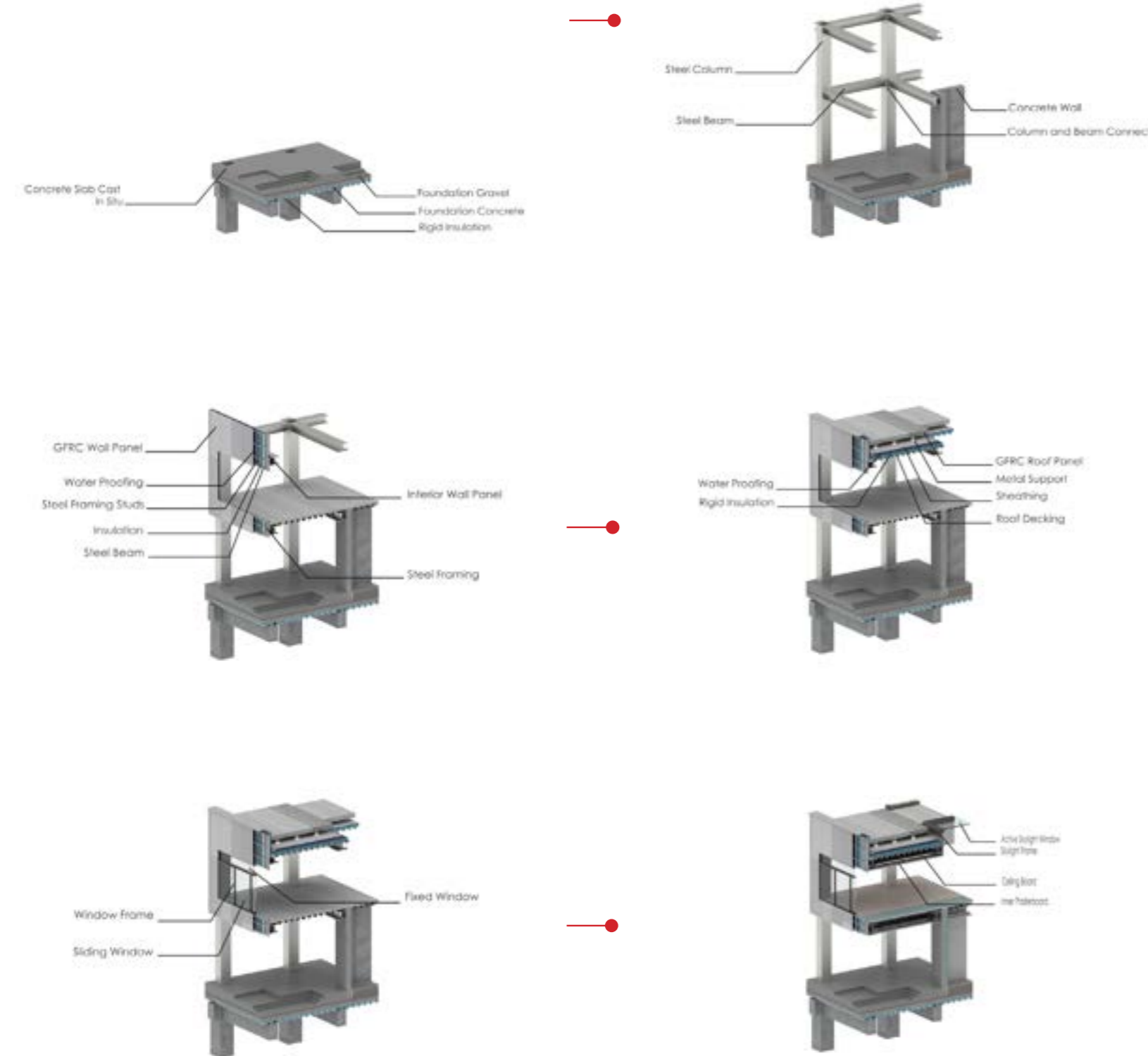
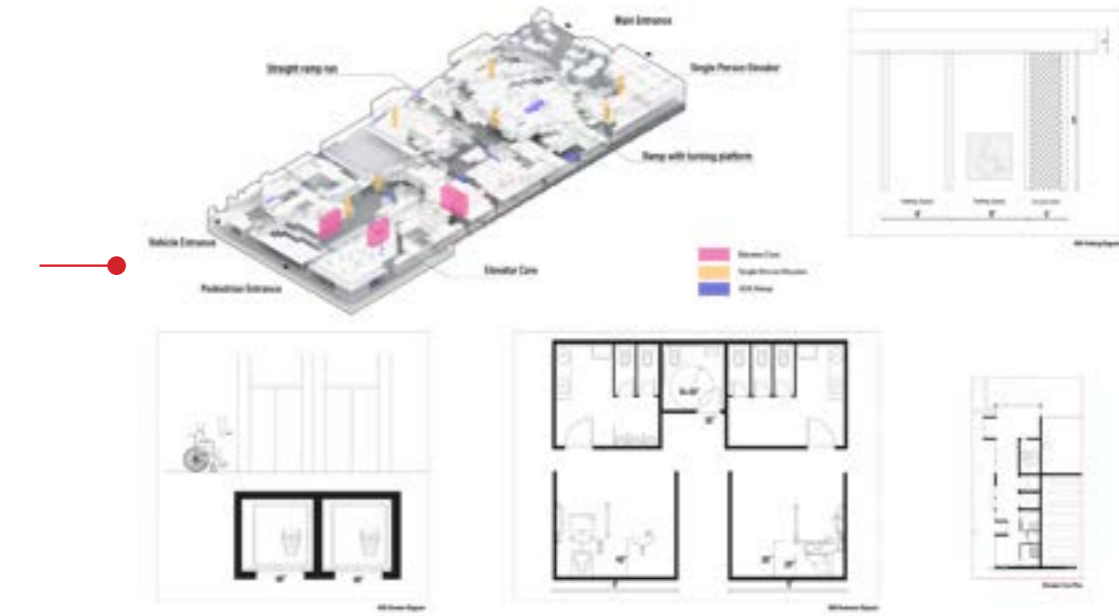
After a fundamental design studio, Double Mat Art School was chosen to future design development phase. In this phase, Structure System, Facade System, Fire Simulation, Egress, ADA, Environmental System, MEP System, Lighting System, Acoustic System and Cost Estimation were considered as the design development phase to generated into a more detailed project.



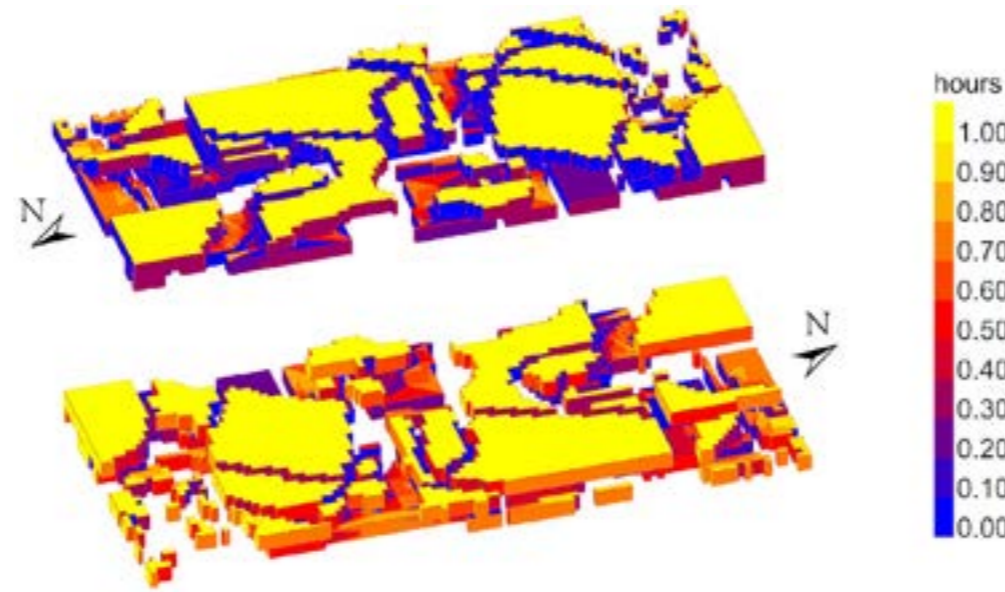
Acoustic Analysis



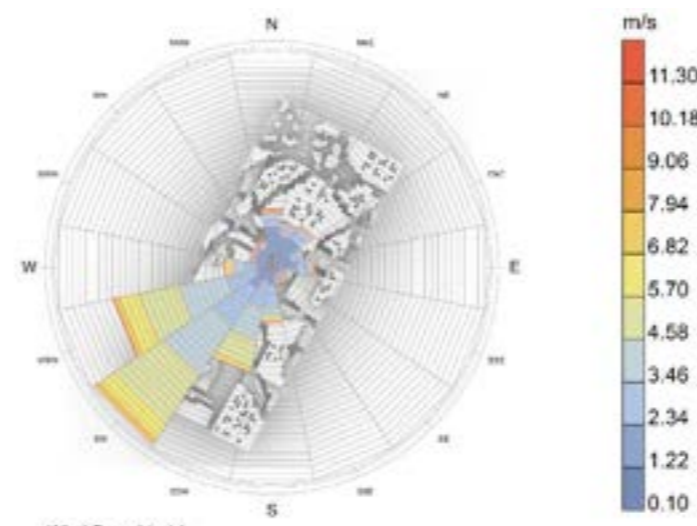
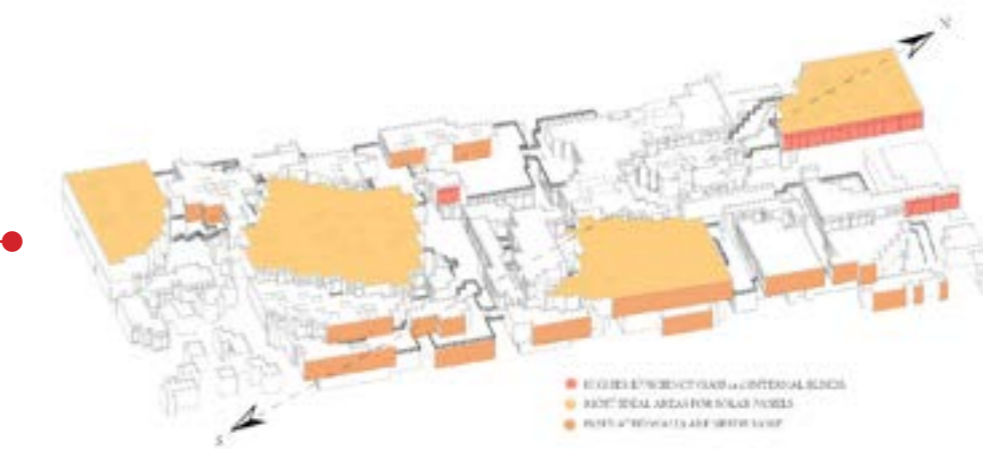
ADA Strategy



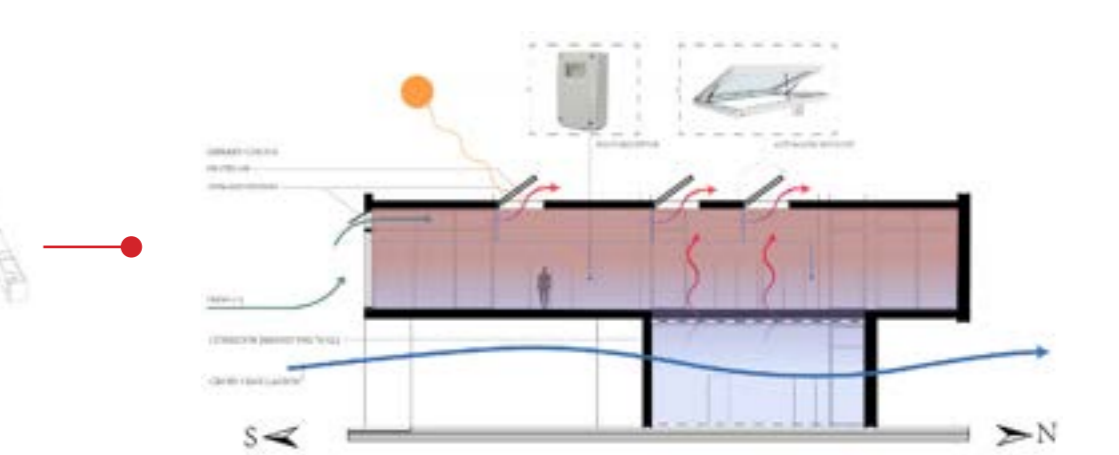
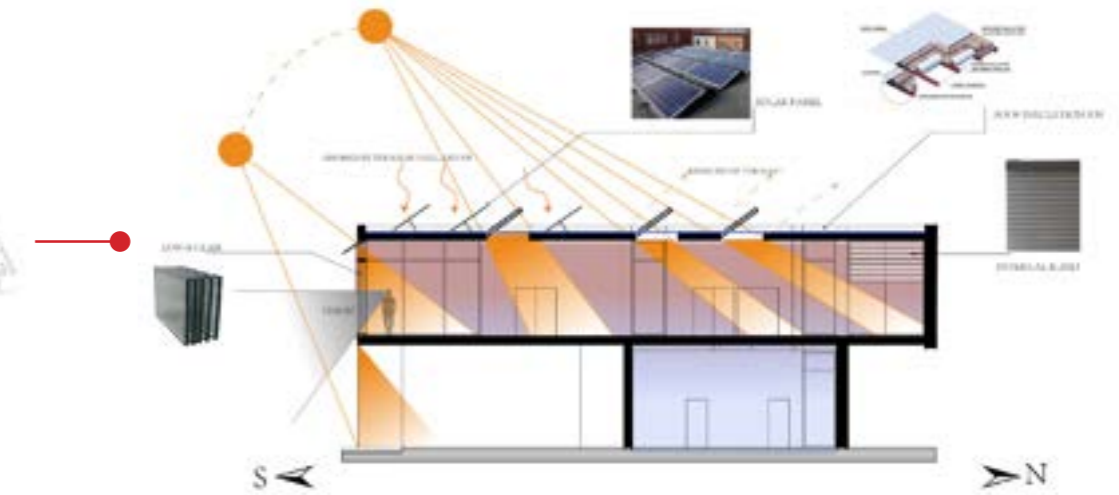
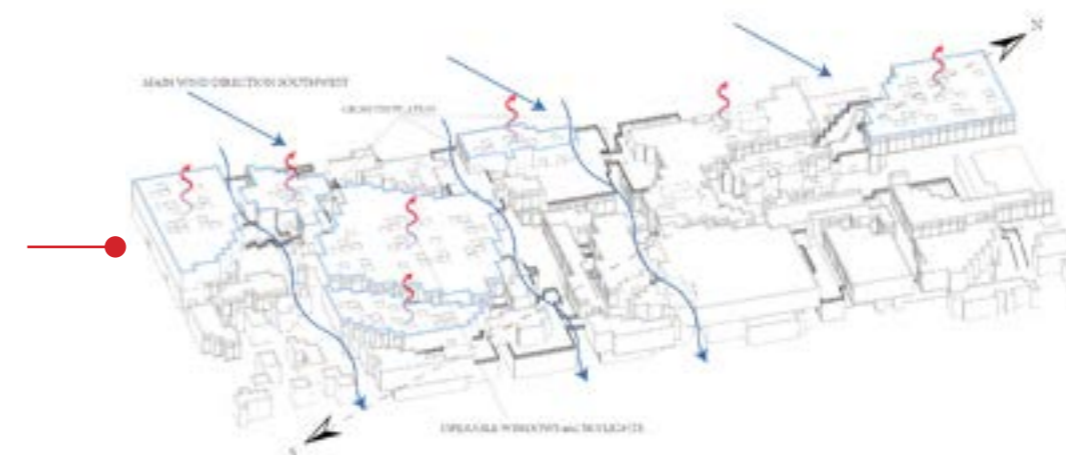
Structure Sequence



Solar Analysis



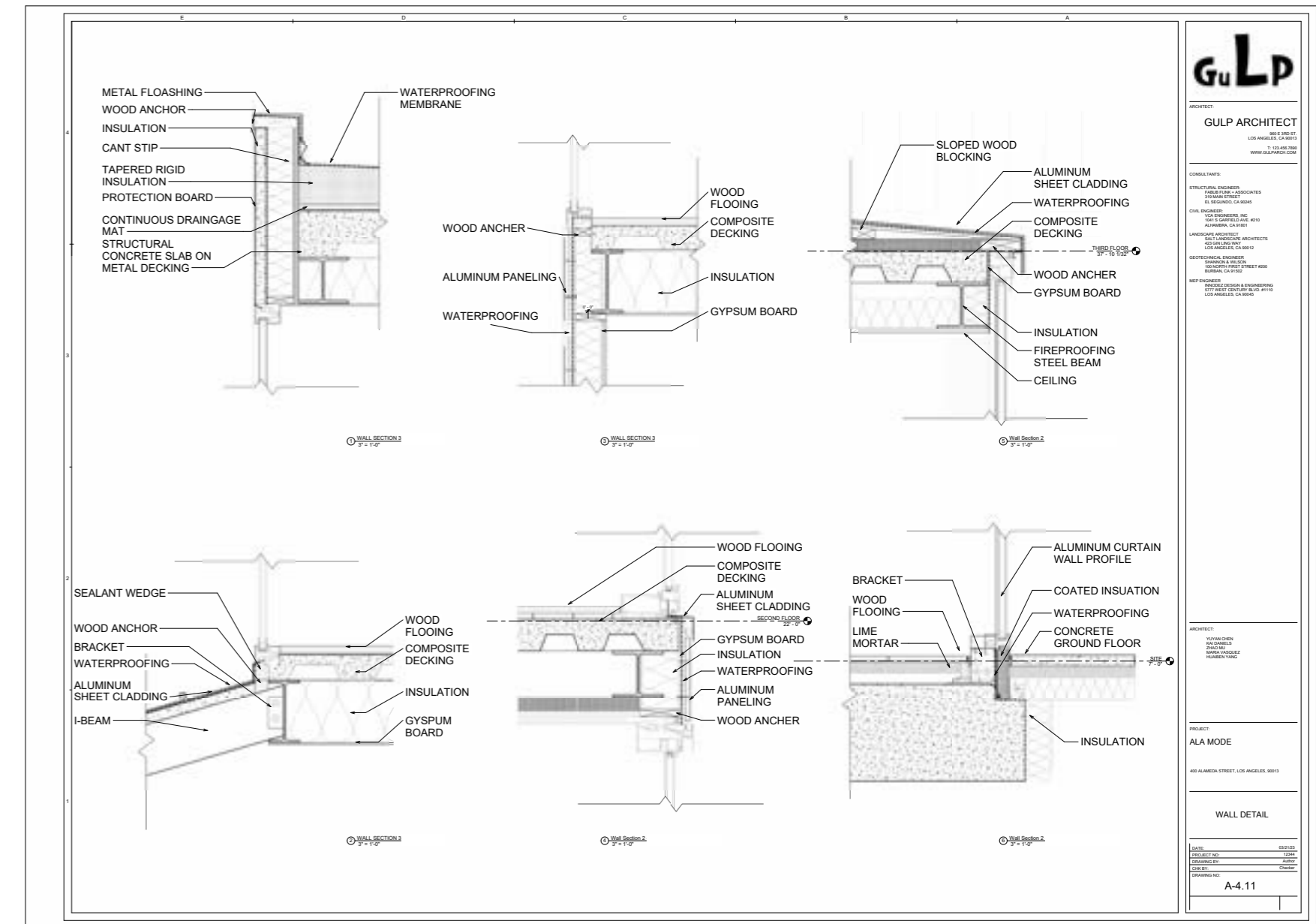
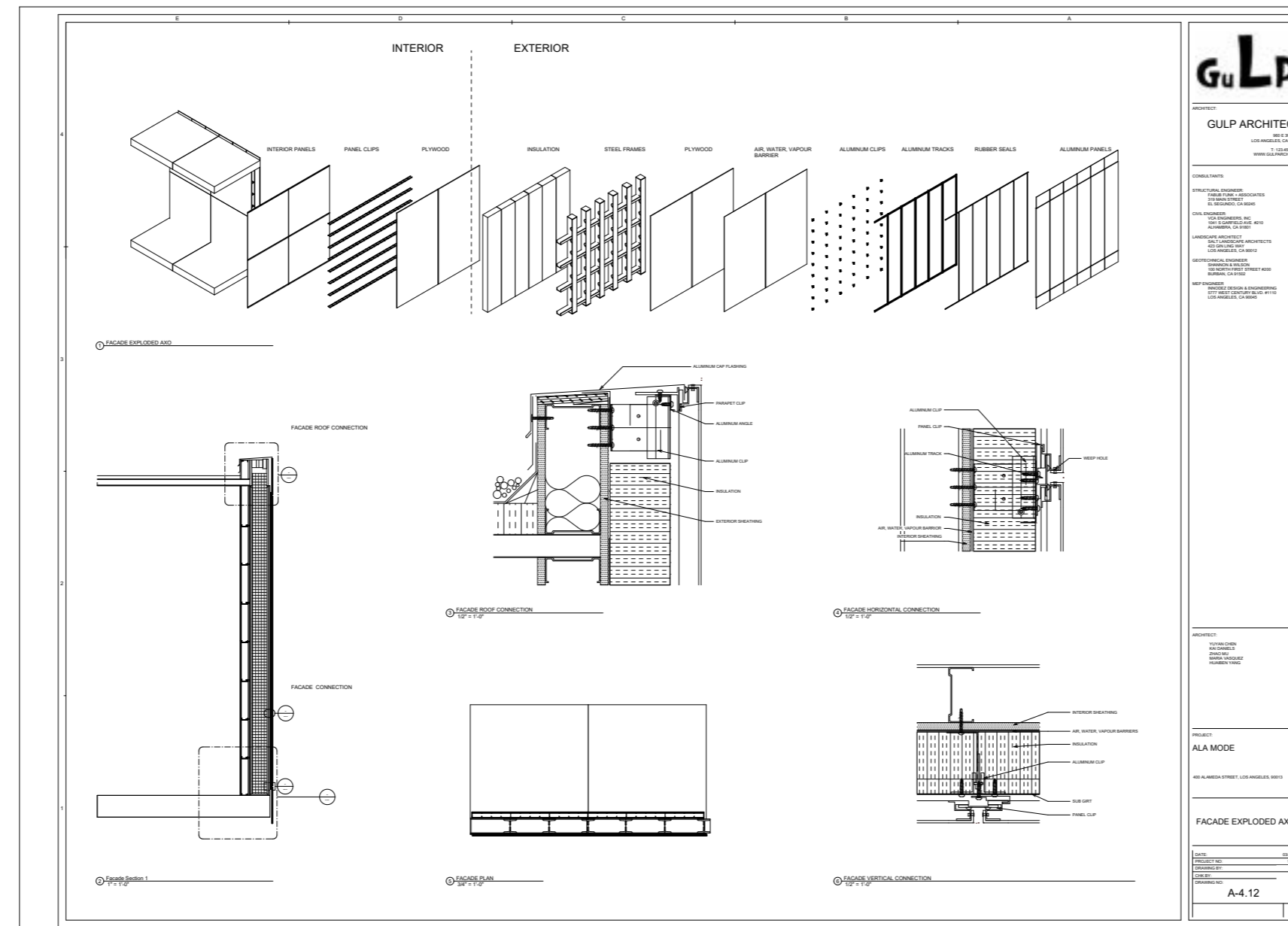
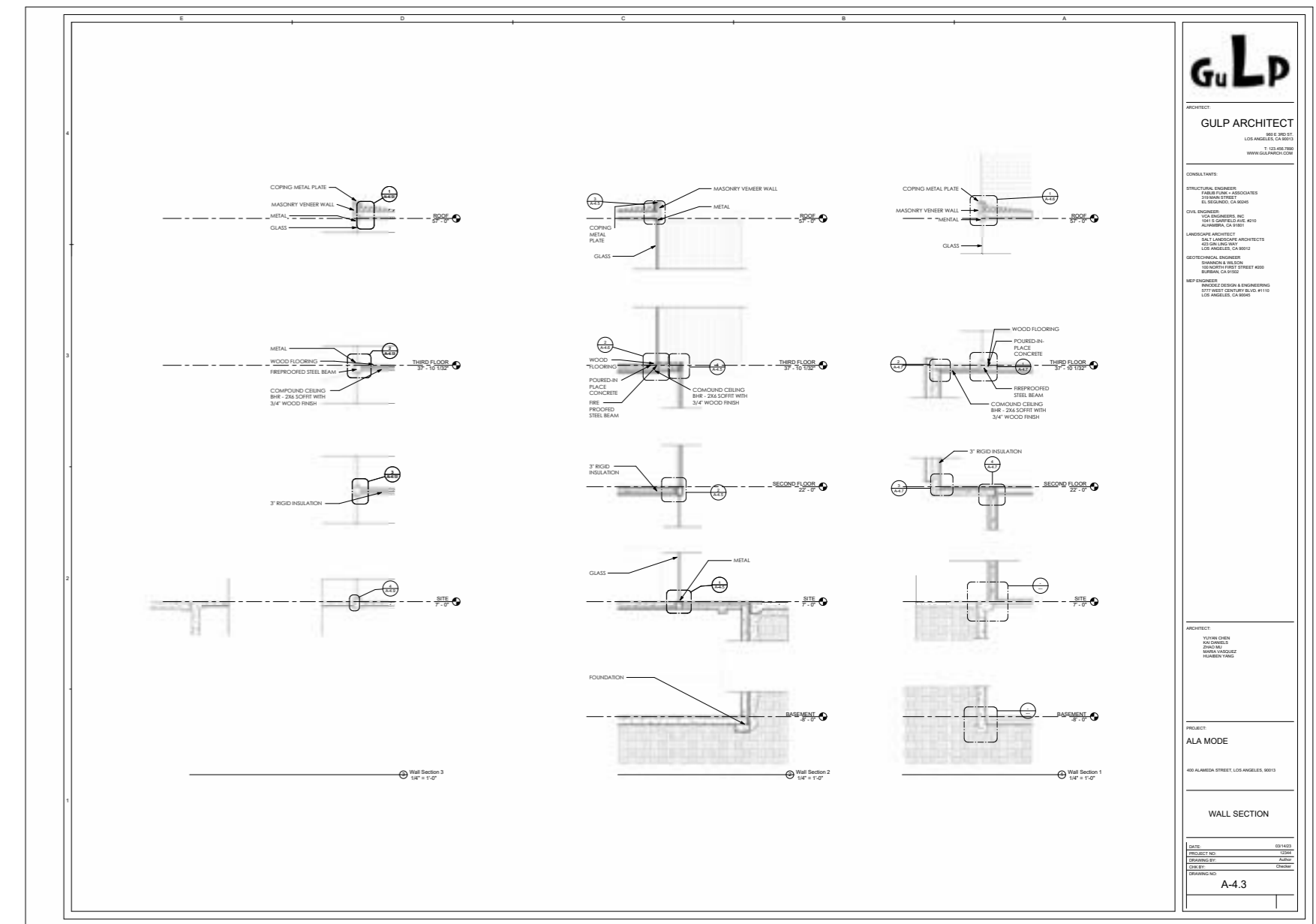
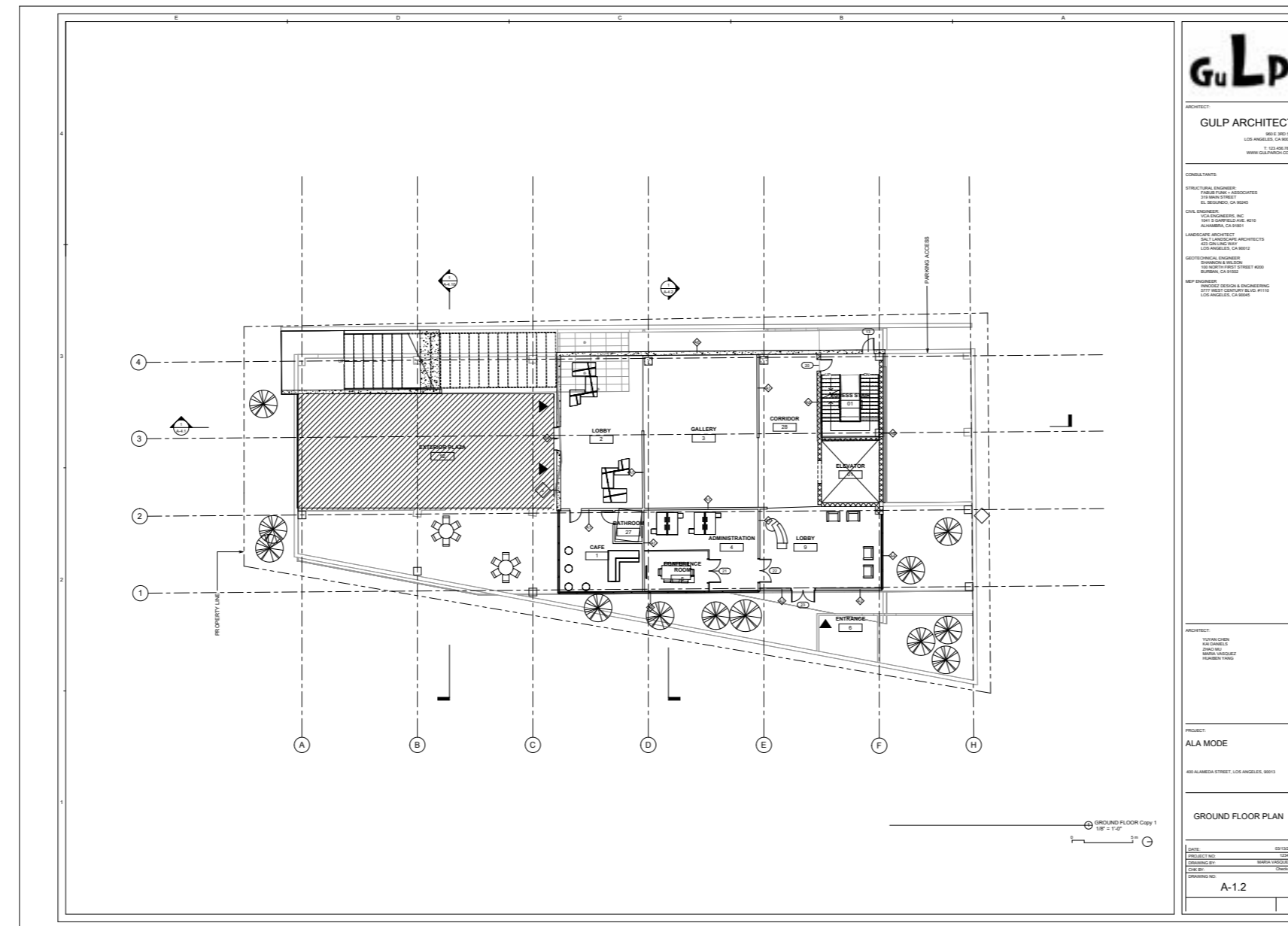
Wind Analysis



Spring 2023

Instructor: Pavel Getov, Kerenza Harris

Group Member: Kai Daniels, Mu Zhao, Maria Vasquez, Huaiben yang



04 | Reflectivity, Plasticity, Shine | Housing

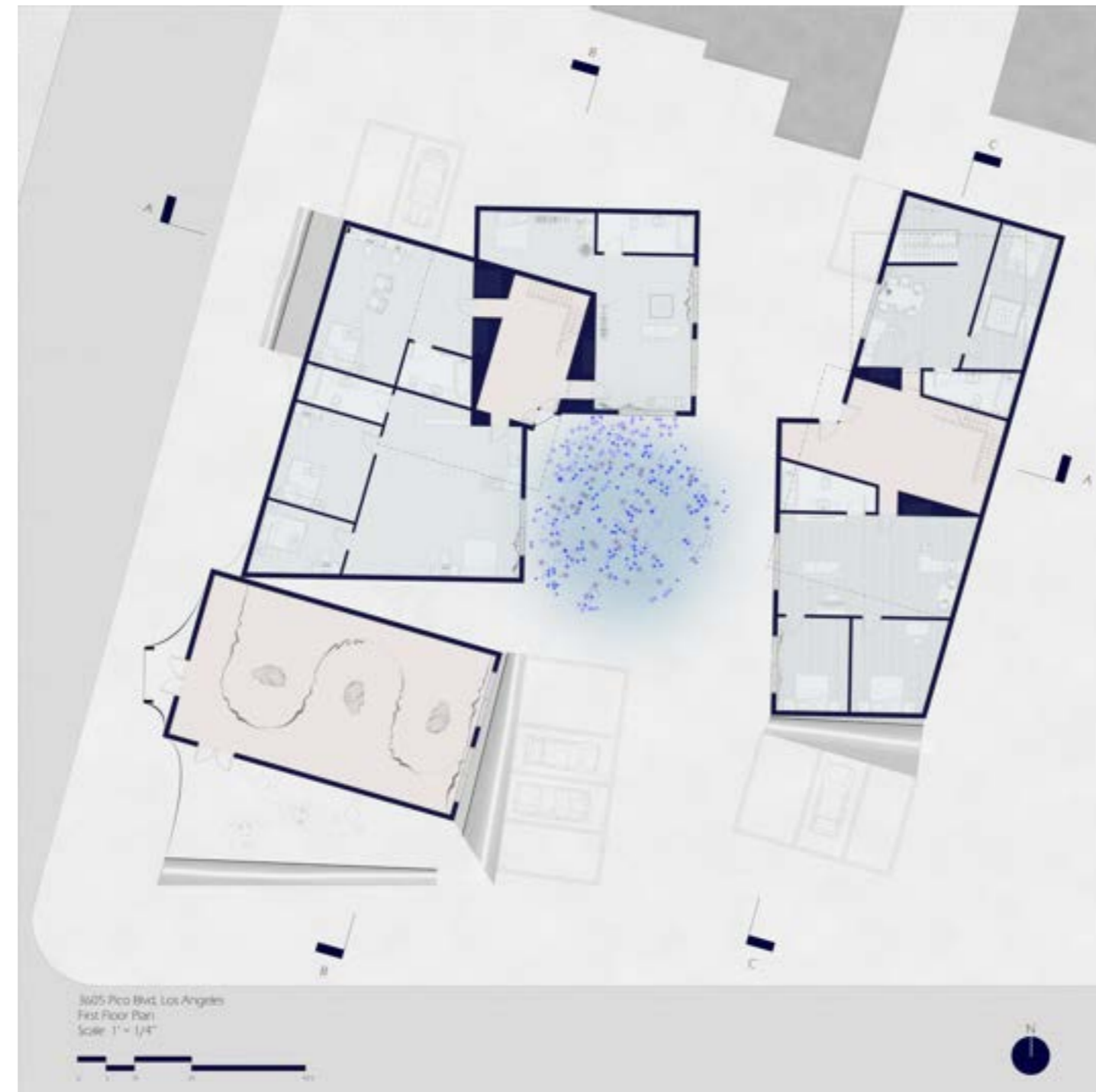
Spring 2021
Instructor: Jasmine Benyamin

Housing in Los Angeles concentrate the basic needs of diverse group of people living in the city. Using stacking strategy to create space that meet their needs.

The housing development at 3605 W. Pico Blvd in Los Angeles is meticulously designed to cater to the diverse needs of its residents. Employing an innovative stacking strategy, the project creates versatile spaces that meet various requirements. Comprising 7 units, including studios, single bedroom and double bedroom apartments, as well as double-floor lofts, the development offers a range of housing options. Additionally, a public gallery and dining space are thoughtfully integrated into the community, promoting cultural engagement and communal interactions. By strategically aggregating typical scale boxes and reorienting their directions, natural thresholds are established between blocks, effectively mitigating noise from the neighborhood and busy streets. This exemplary design harmoniously addresses the basic needs of diverse inhabitants while fostering a sense of community.



Bird Eye View



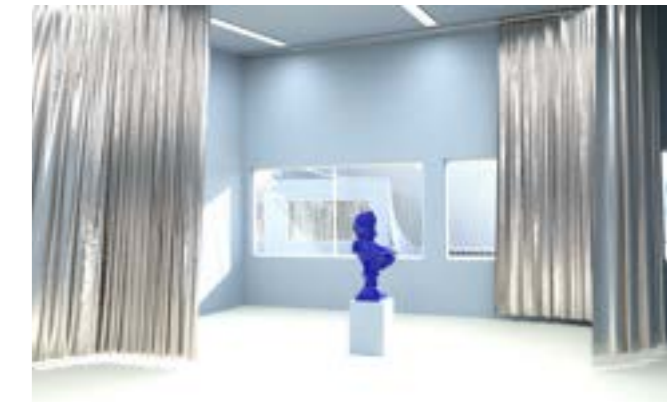
Ground Floor Plan



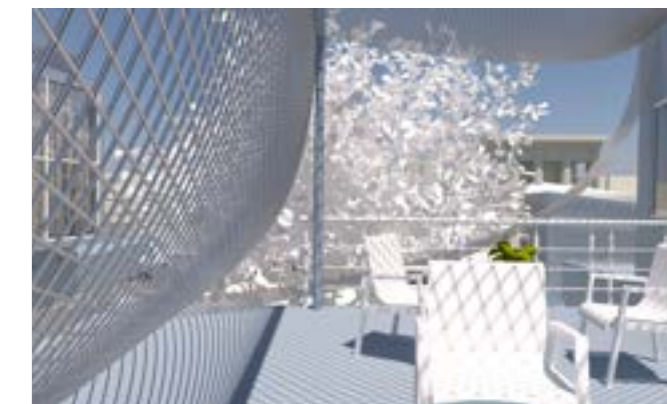
Second Floor Plan



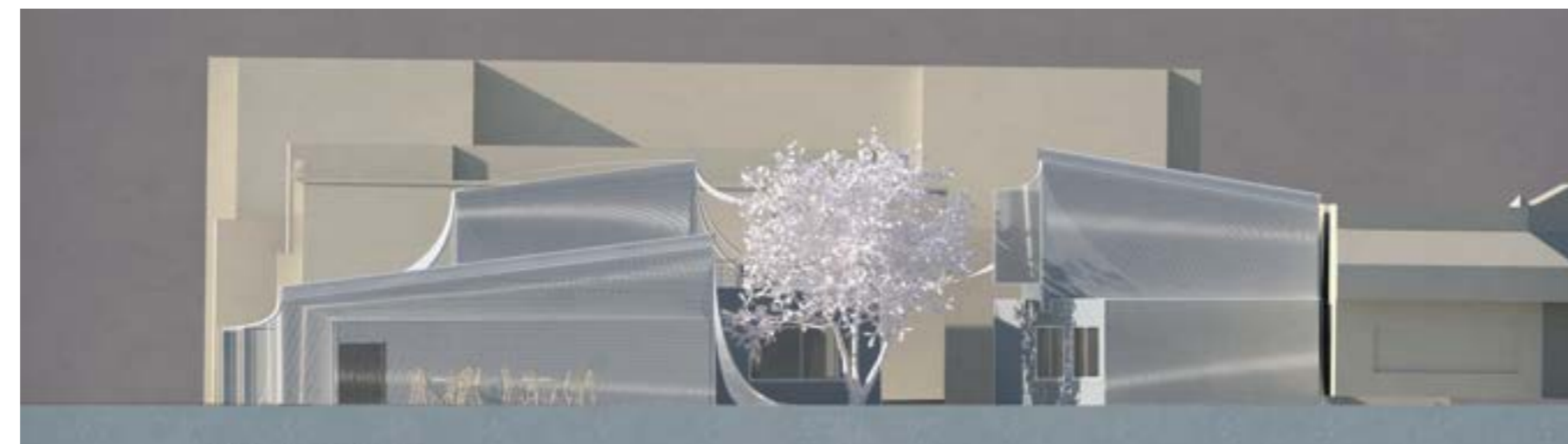
Render - Gallery Night View



Render - Gallery



Render - InUnit Terrace



North Elevation



West Elevation



Section A-A

Section B-B

Section C-C

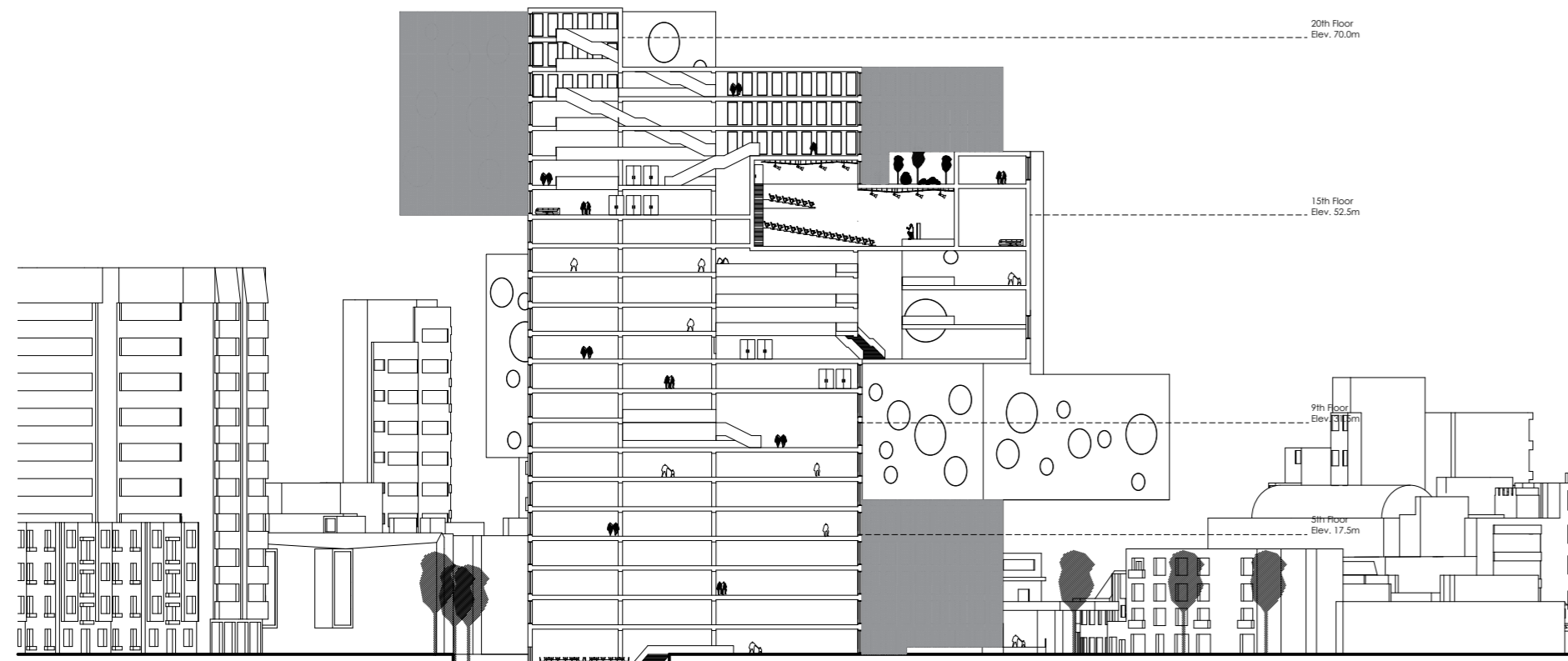
05 | The Big Building | Art College

Spring 2022

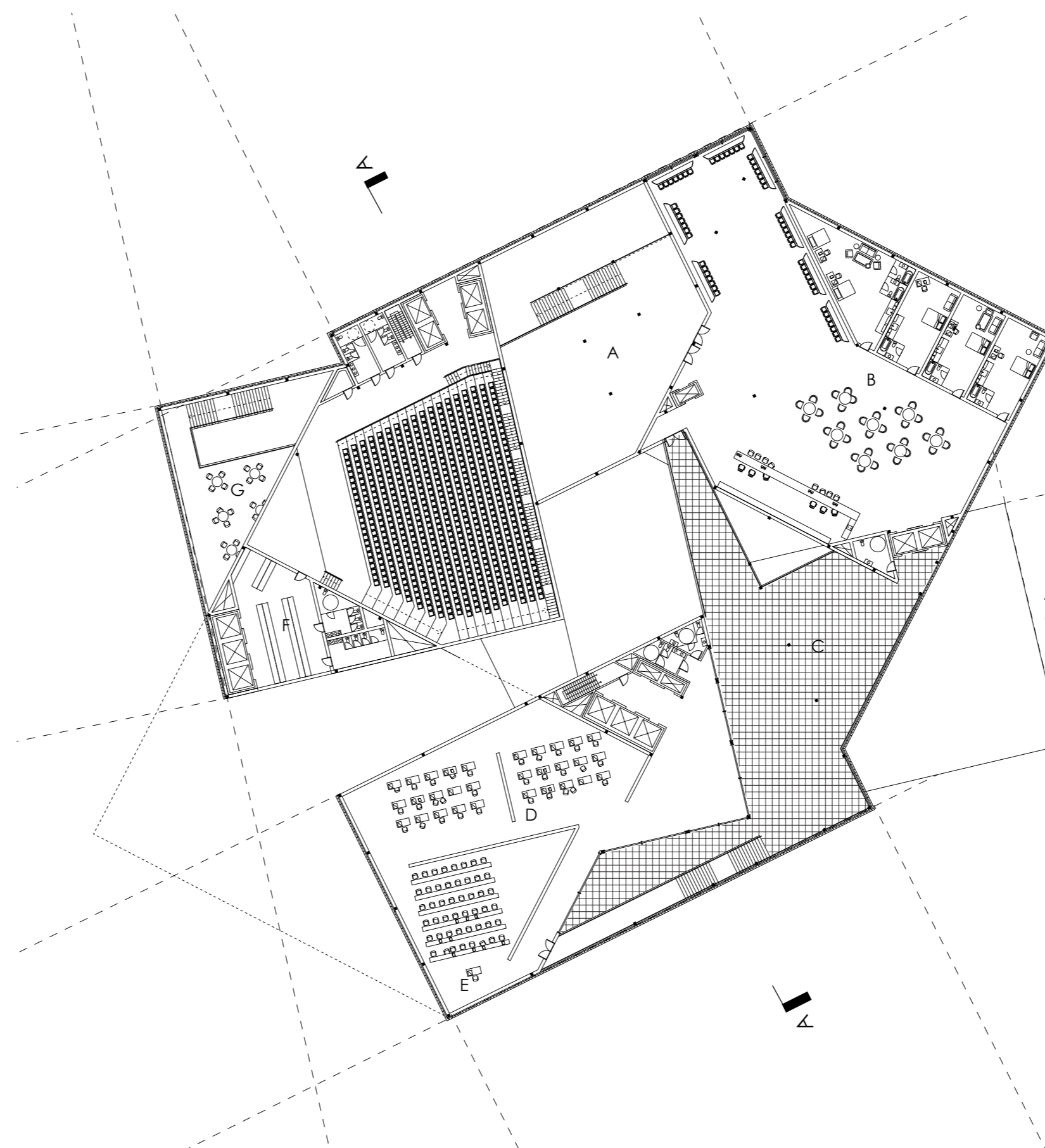
Instructor: Zeina Koreitem

In Mexico City, the fusion of different cultures and a large population has made our site a dividing point. To the west of the site, there is a green park consisting of numerous art galleries and museums, while to the east lies a bustling residential area.

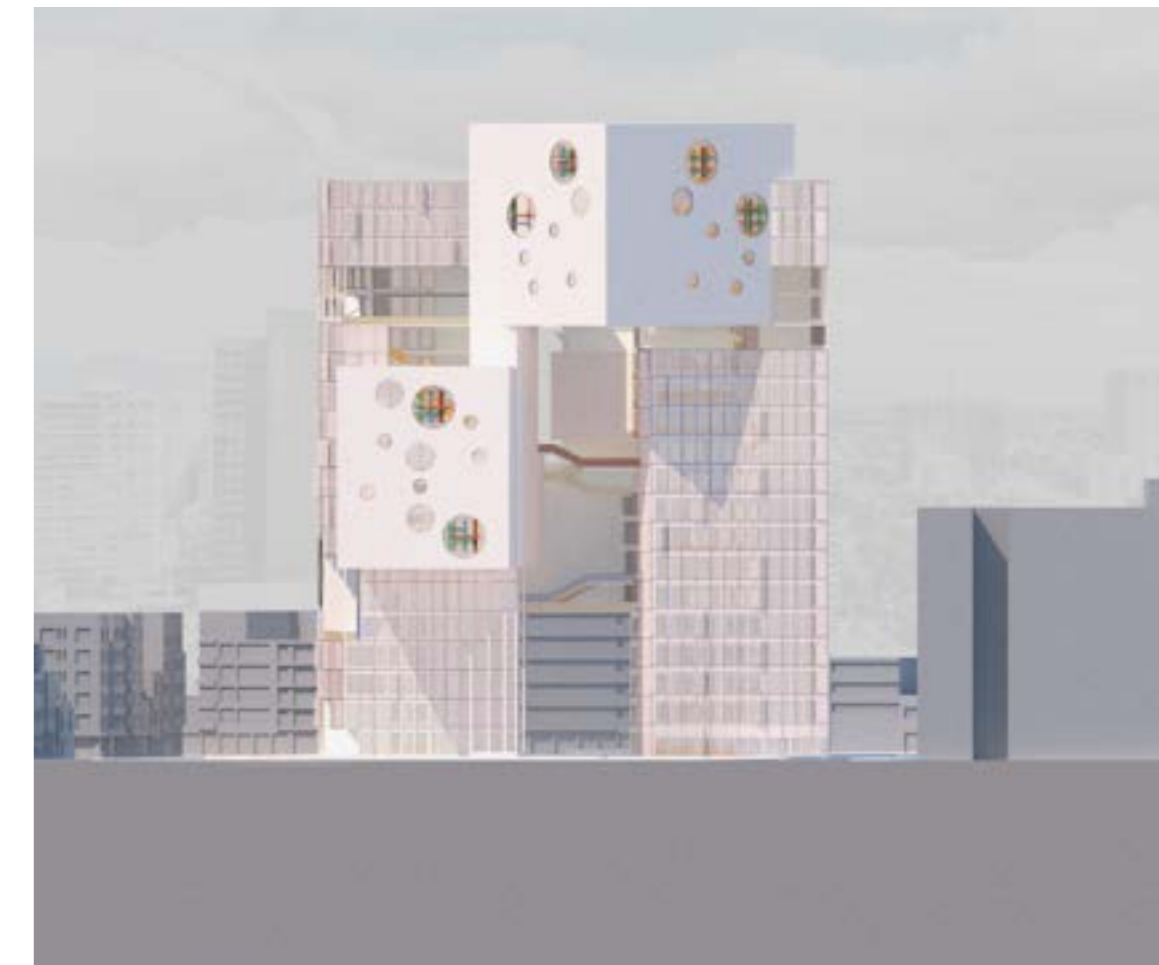
The art university has a higher demand for experiencing the local culture. Therefore, a high-rise art university has been created based on the orientation of the site and the surrounding historical and cultural background. Adapting to the different cultural zones, two main buildings with similar forms but different functions, along with four smaller buildings, are interconnected and communicate through aerial corridors and internal pathways. This creates two routes: one connecting internal spaces with the outside, and the other connecting internal projects with each other. This transformation turns the architecture from a mere school into a school community, also providing corresponding community facilities for nearby residents.



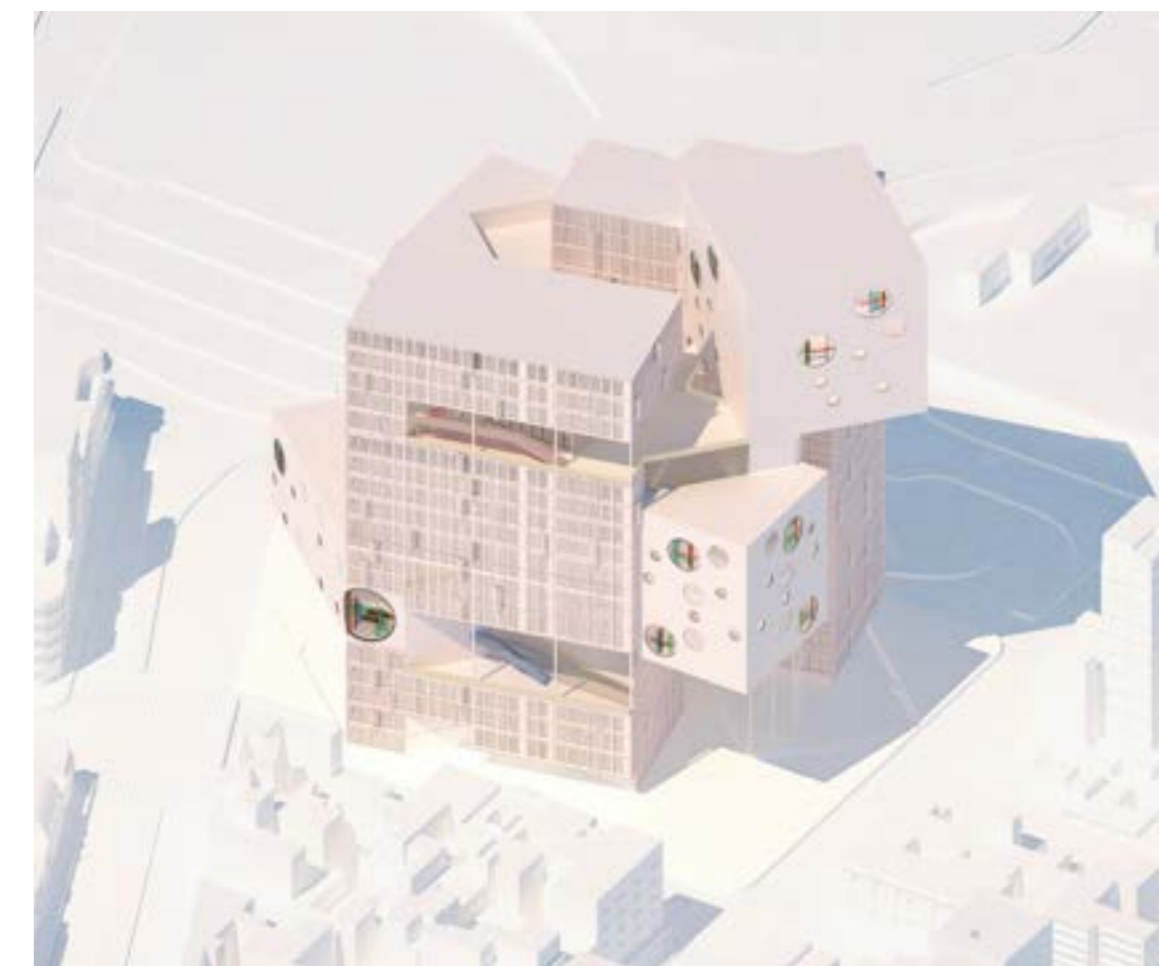
Section A-A 1:200



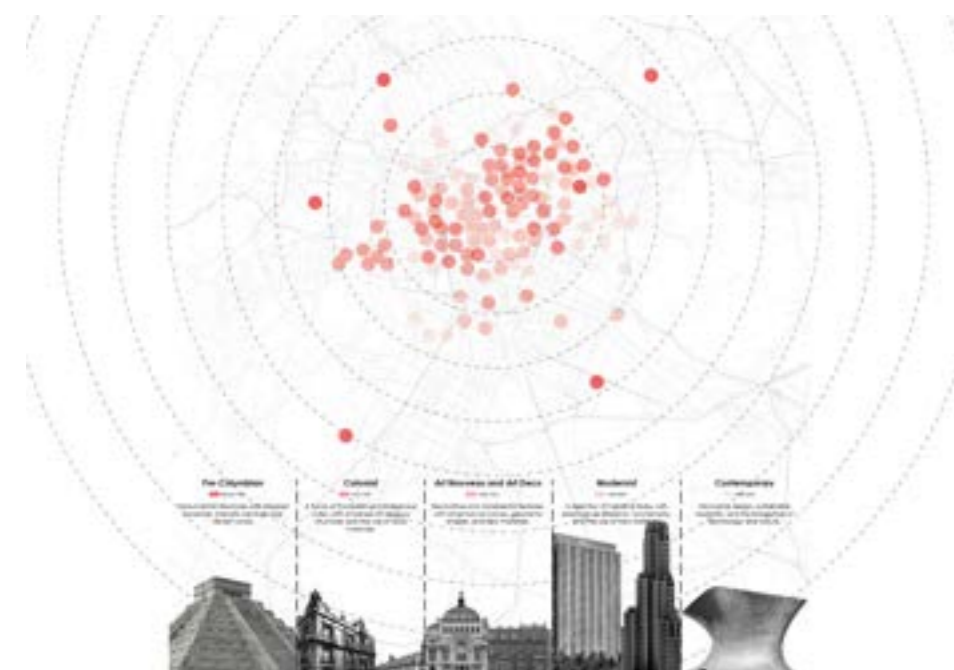
Typical Floor Plan 1:200



Elevation - East



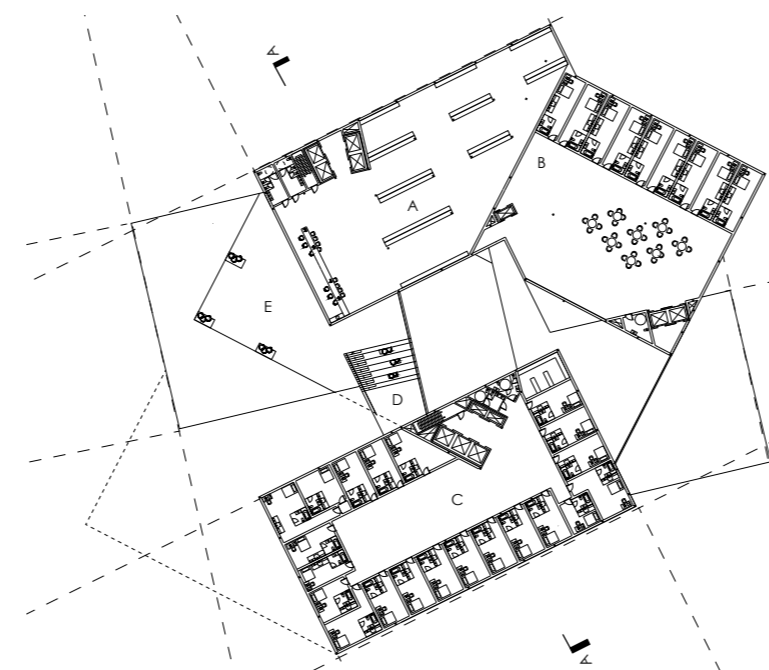
Axon - SouthEast



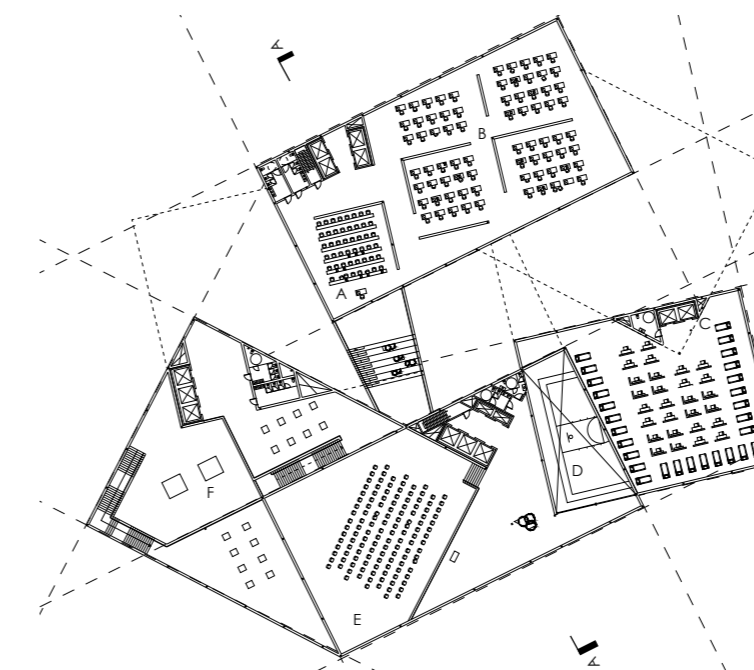
Site Historical Analysis



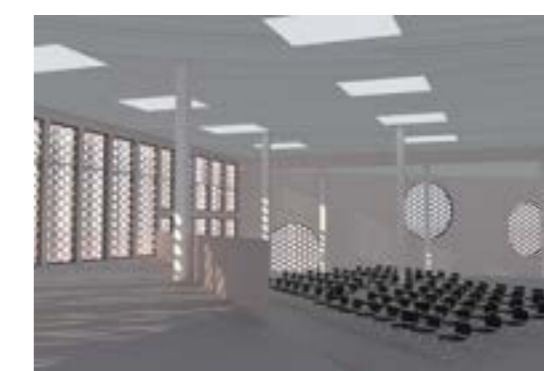
Massing Model



Library Floor Plan 1:500



Lecture Room Floor Plan 1:500



Render - Auditorium



Render - Lecture Space

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