



Selected works of
Yash Mehta
Architectural Design Portfolio



Yash Mehta

*Cover - Flower Shop Model Photograph
2GAX Design Studio workshop,
A 3D printed Model Dipped In Resin,
White and Black Color Dripped used Robotic Arm*

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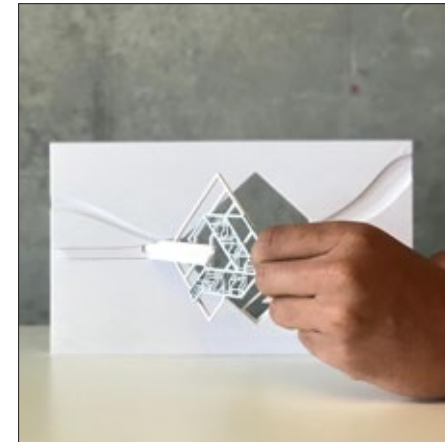
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01

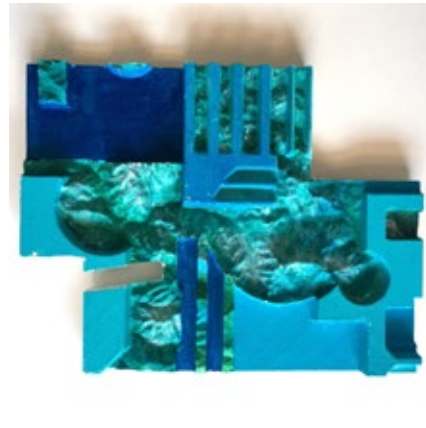
CONTAMINATED - Atlanta Public Library

Academic Work

SCI_Arc Fall'19
Advisor : Ramiro Diaz-Granadoes
Collaboration : Amparito Martinez

Cities appear inside rooms, rooms move through cities, rooms are nested within rooms. Here we are not just designing a library but spaces capable of undergoing a transformation of overlaying terrains and becoming mediating space from a city into a totally imaginative environment. The proposals expand beyond the typical resources of a library, providing previously inaccessible advanced technology in space desired and designed to tailored experiences. The library is an aggregation of 7 sampled mountainous terrains stacked one above the other to form 3 shifting tectonic bodies.



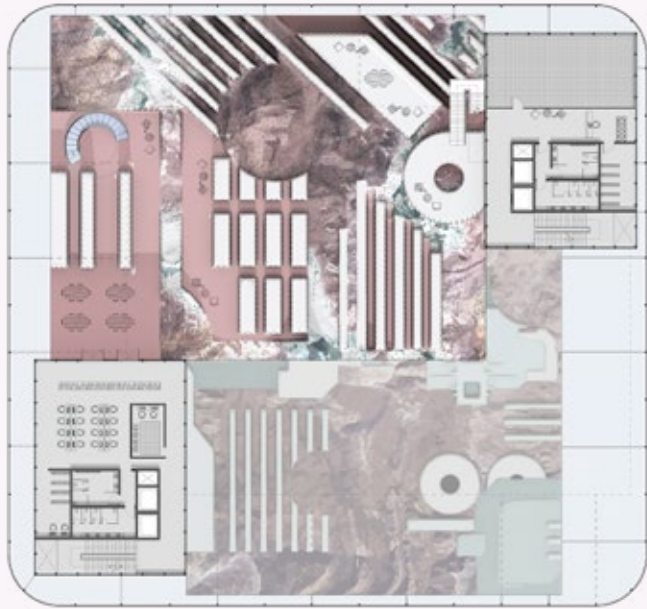


Sampling Terrains from Goggle earth

AI generated textures and

Physical Models

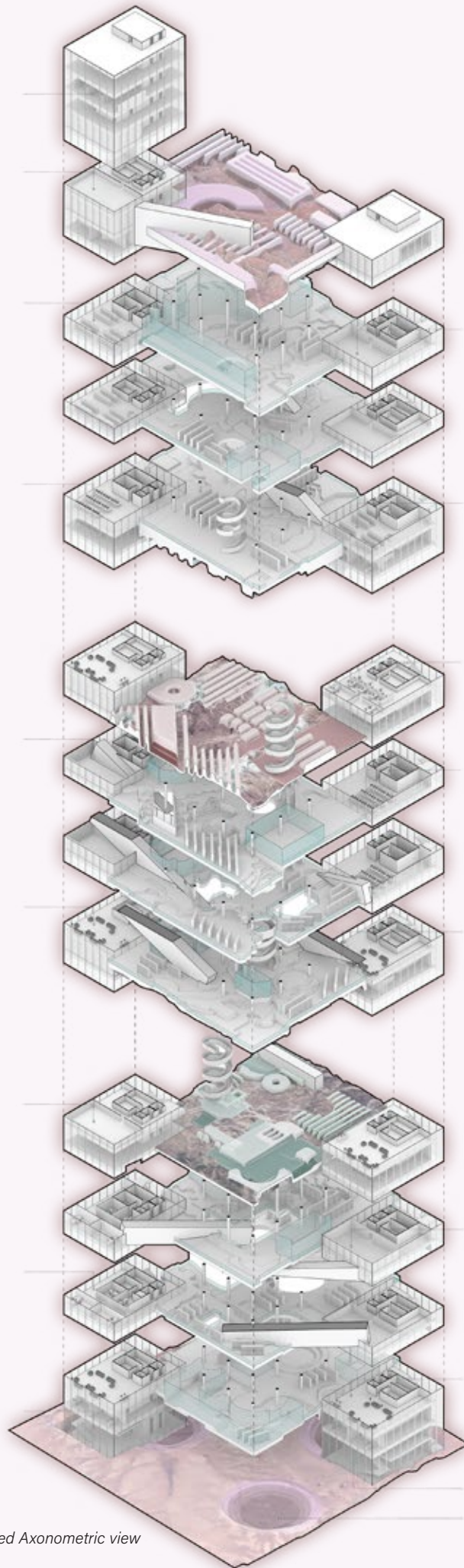




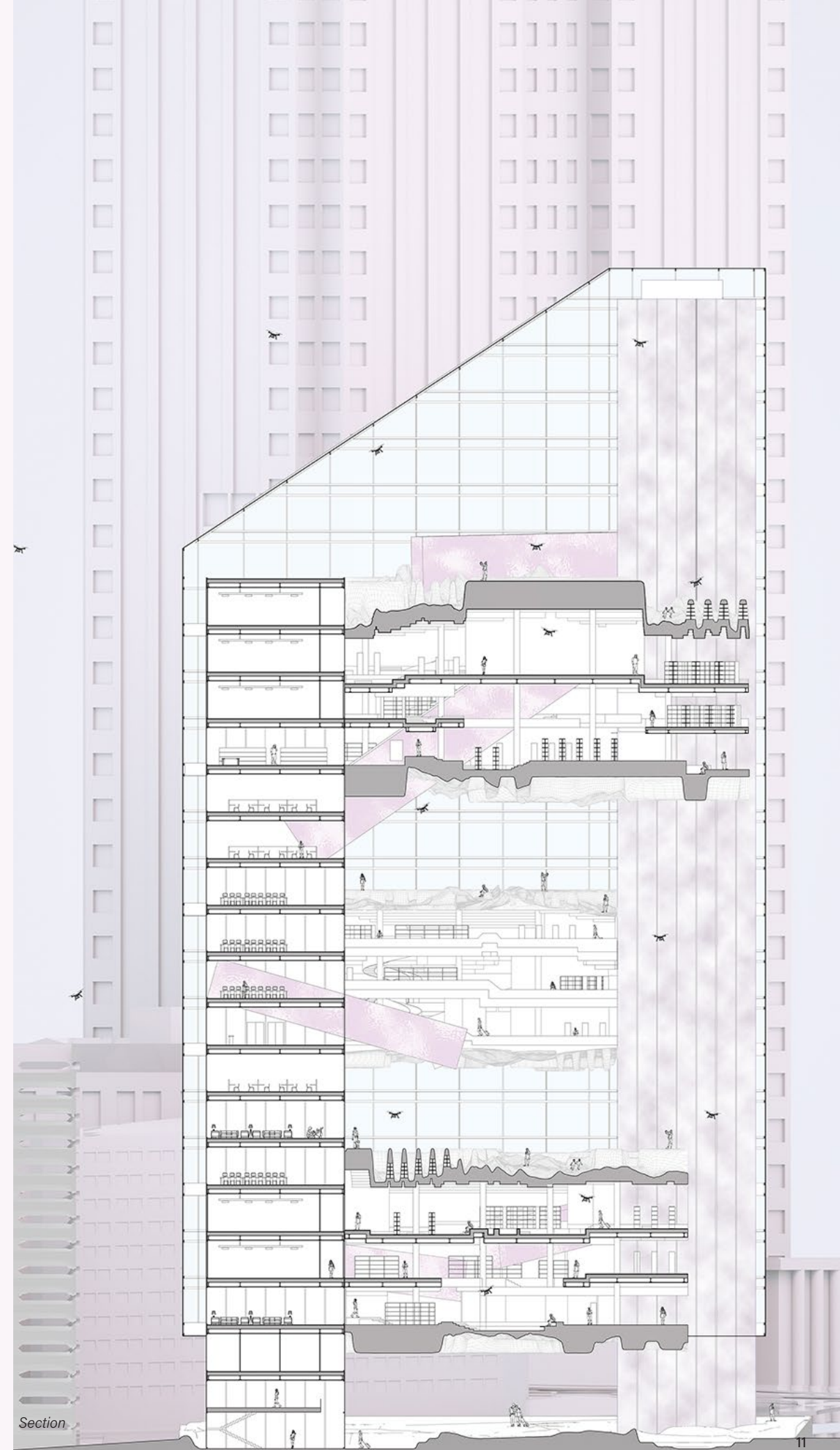
Plan at Level 12



Ground floor plan



Exploded Axonometric view



Section



(Left) Model Photographs
(Center) Interior Axonometric render view
(Right) Interior View of library from terrains





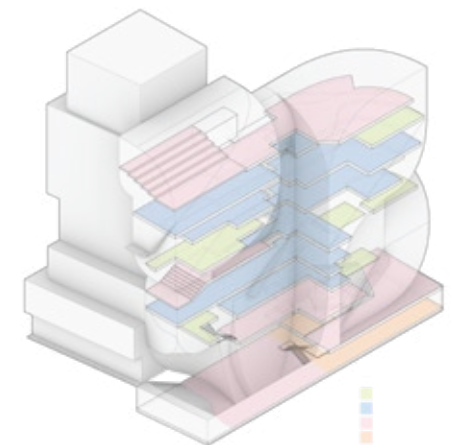
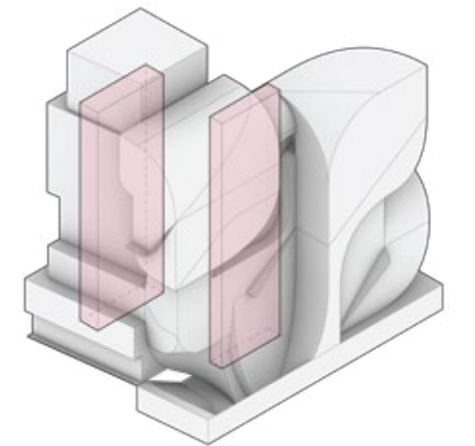
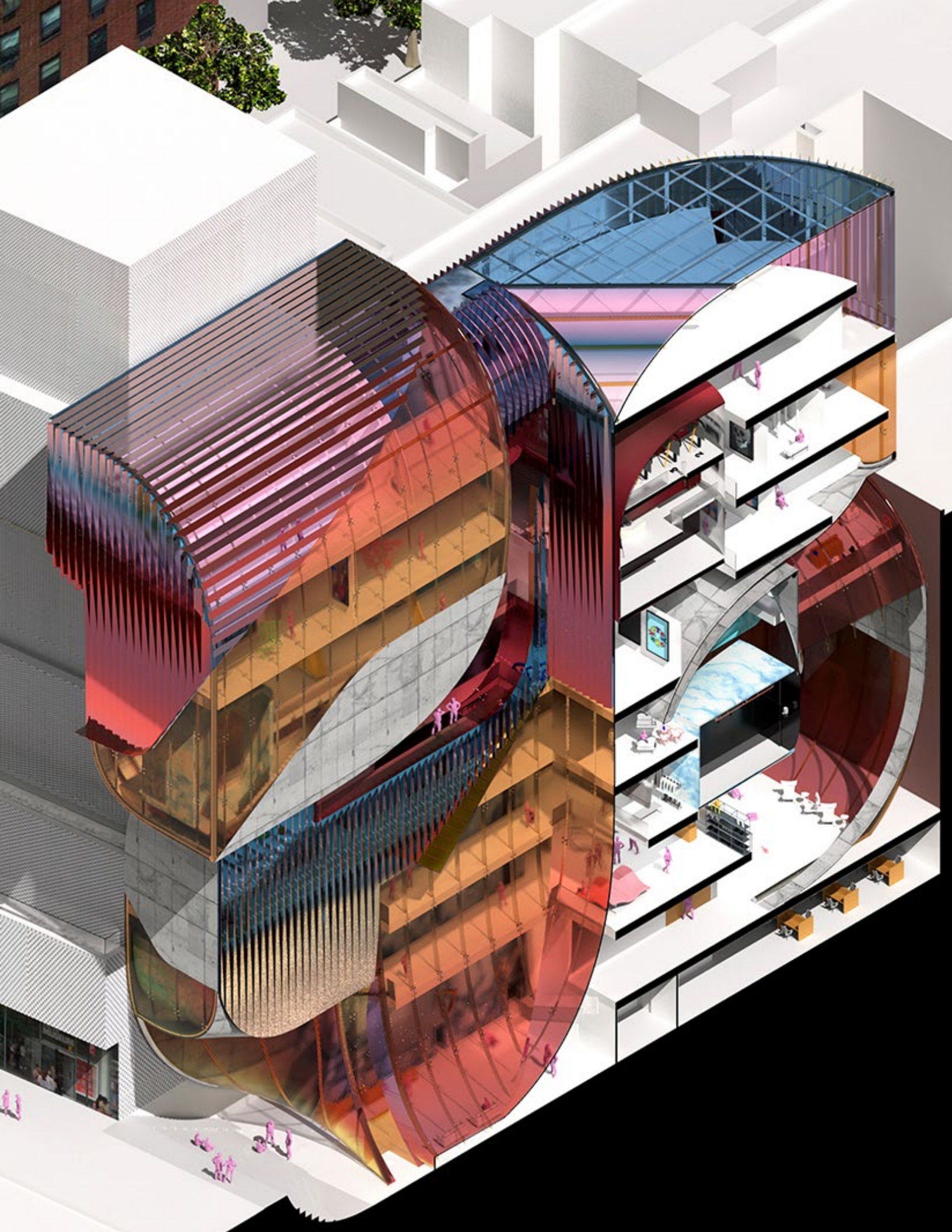
02

ART CLOSET - Museum of POPUP's

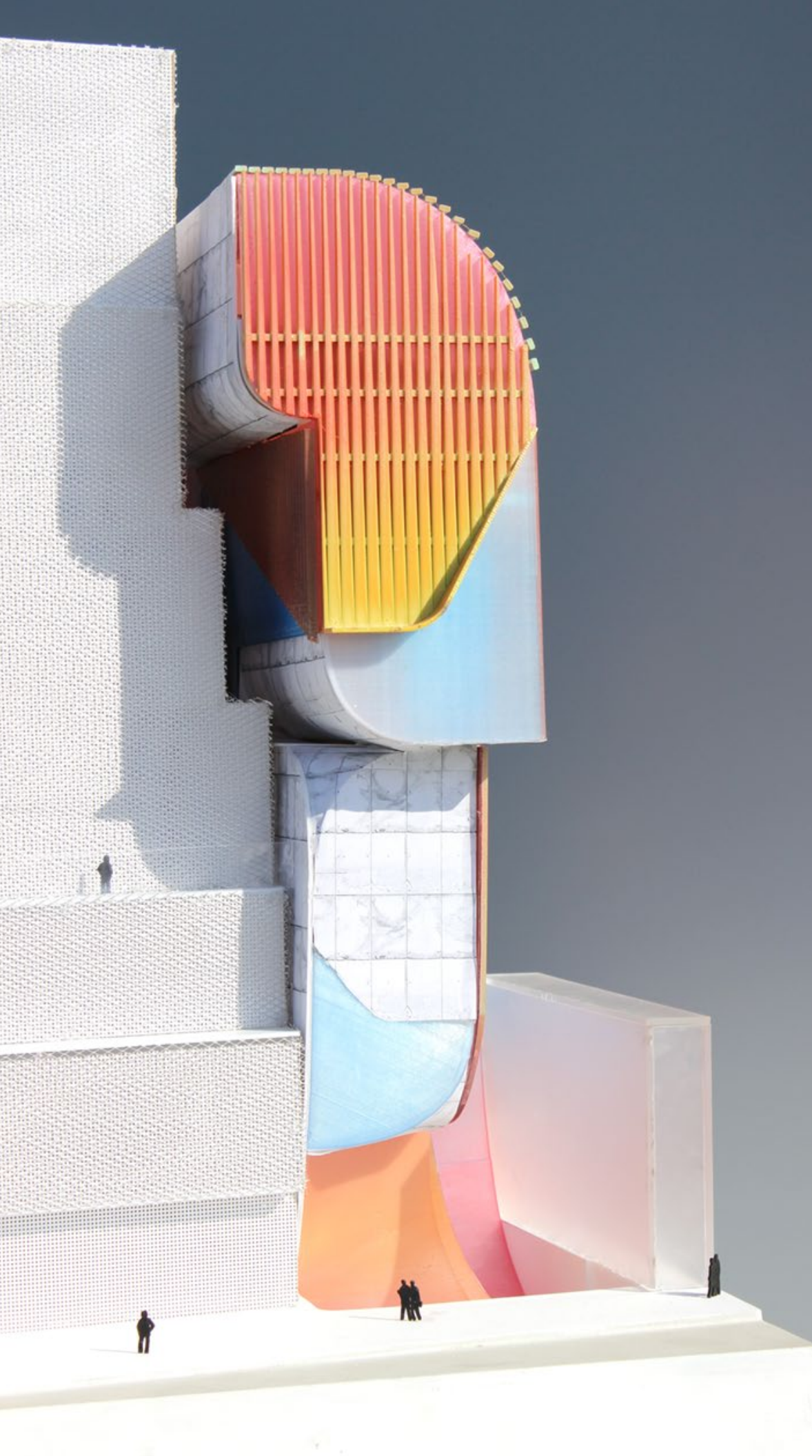
Academic Work

SCI_Arc Fall'19
Advisor : Elena Manferdini
Collaboration : Sri Sinha

The Vertical studio explores how social media is changing the digital and physical foot print of institutions like art museums and in particular how pop-up and interactive installations have changed the economy of art composition. The studio departs from the position that installations have lost their cultural relevance both in art and architecture and that this practice, now no more than a commercial product without a project. Taking this brief the studio proposes an museum extension for New Museum in New York.



(Top) Axonometric view
(Left) Section
(Right) massing diagrams



Model Photographs

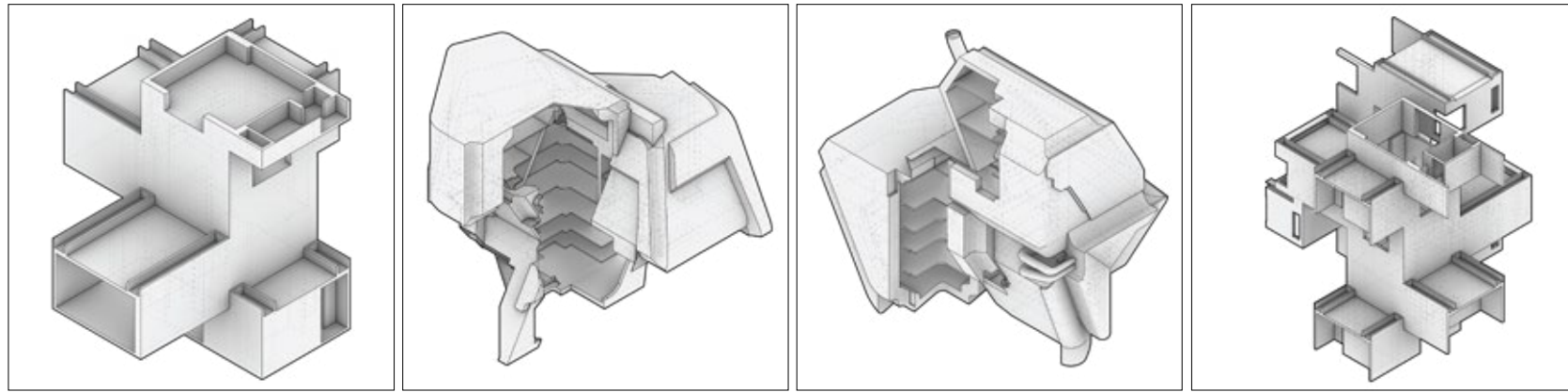
03 STICK MONSTER

Academic Work

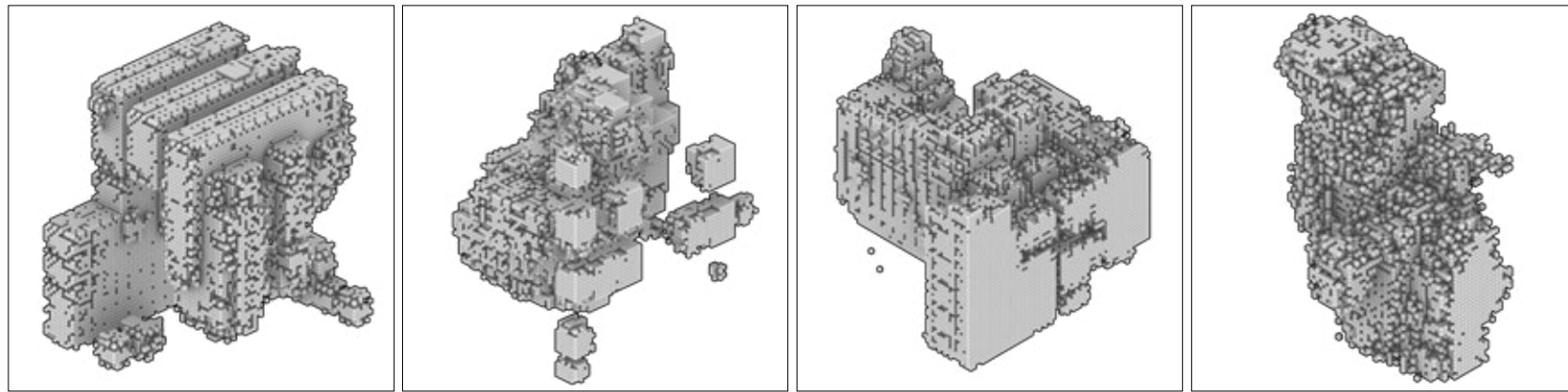
SCL_Arc Fall'19
Advisor : M. Casey Rehm
Collaboration : Lawrence Yuan, Hari D., Yi Lin

Stick Monster uses and trains an open-source 3D-RaSGAN neural network on more than two hundred architectural section models from the previous design studios to generate a new design method for architectural form. Using Python and Grasshopper scripting, the low-res massing from GAN training was designed into highly articulated stacked timber assemblies based on a brick layering patterns to create wooden panels. The project utilizes conventional neural networks in combination with robotic assembly algorithms to produce a scaled timber structure. In addition Cycle GAN neural networks training is used to develop 2D textures for the structures, exploring the relationship between 3D form and 2D images from old building facades of New York & Brooklyn. This tower or the stick monster explores the tension between Architectural aesthetics and the possibilities of interlocking structure so intricately designed that it balances itself without any additional structural supports.

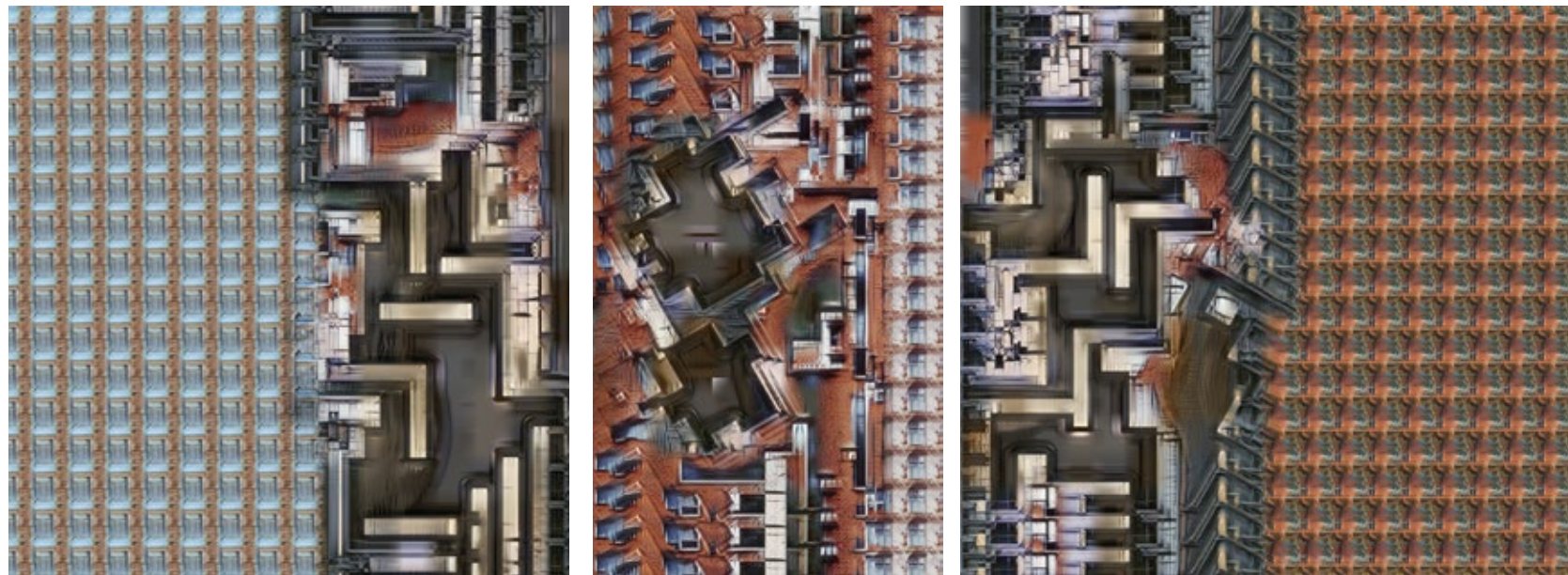




Data Sets



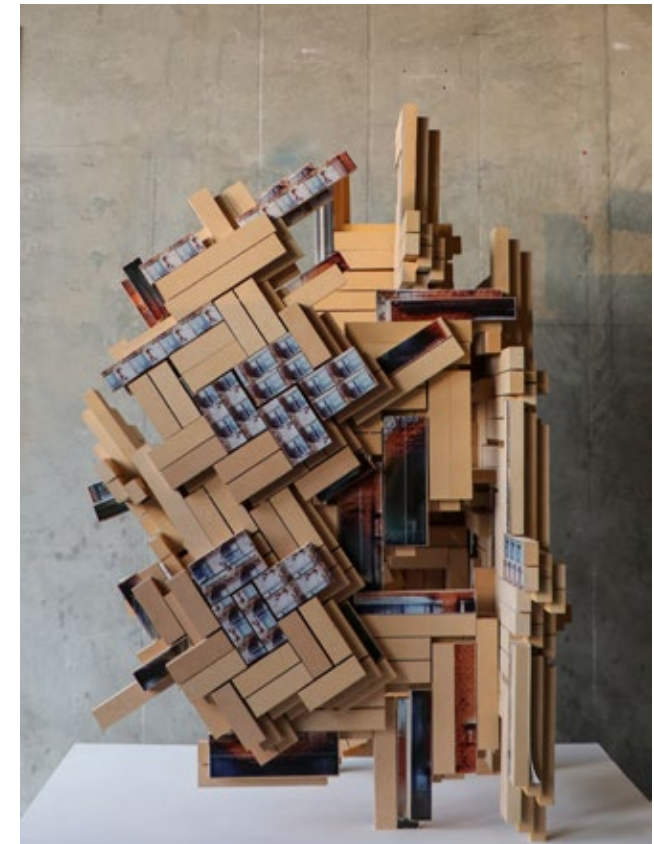
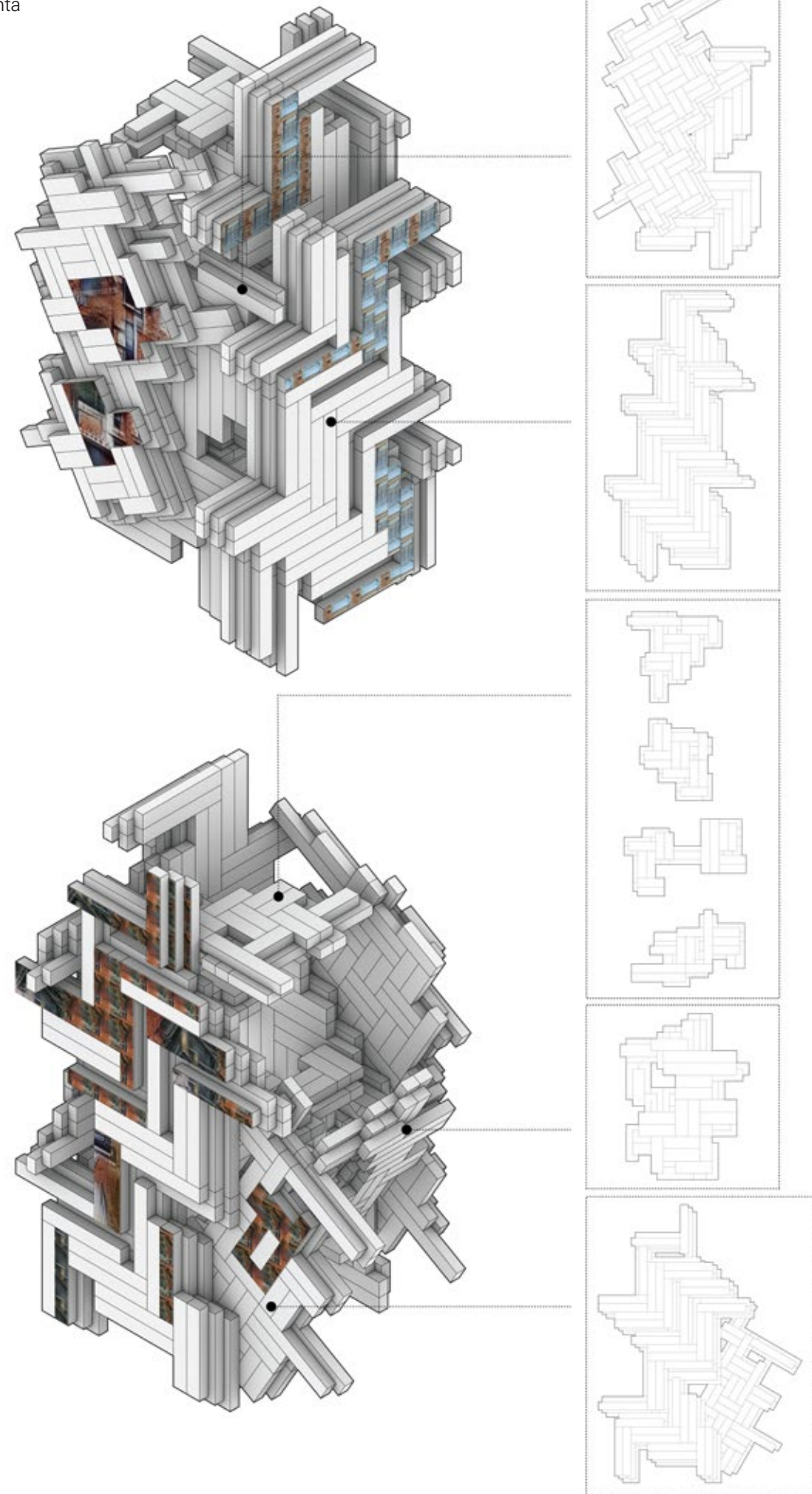
Gan Outputs



Gan Textures

(Right) Model Photograph





(Left) Axonometric drawing
(Center) (Right) Model Photographs

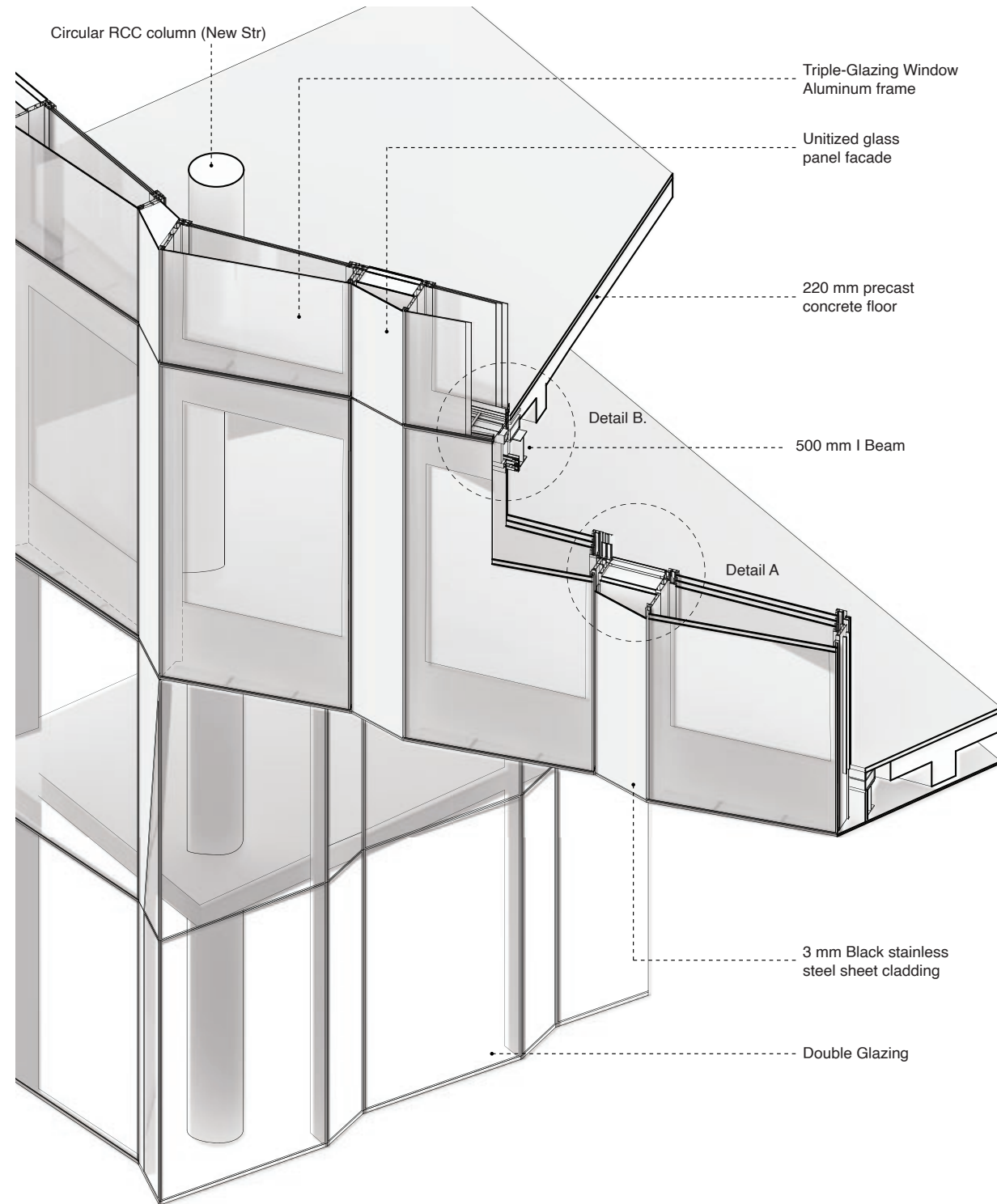
04 MUTATING TECTONICS

SCI_Arc Fall'19
Advisor : Maxi Spina
Collaboration : Hiral Ahir, Pin Chih & Kumaran Parthiban

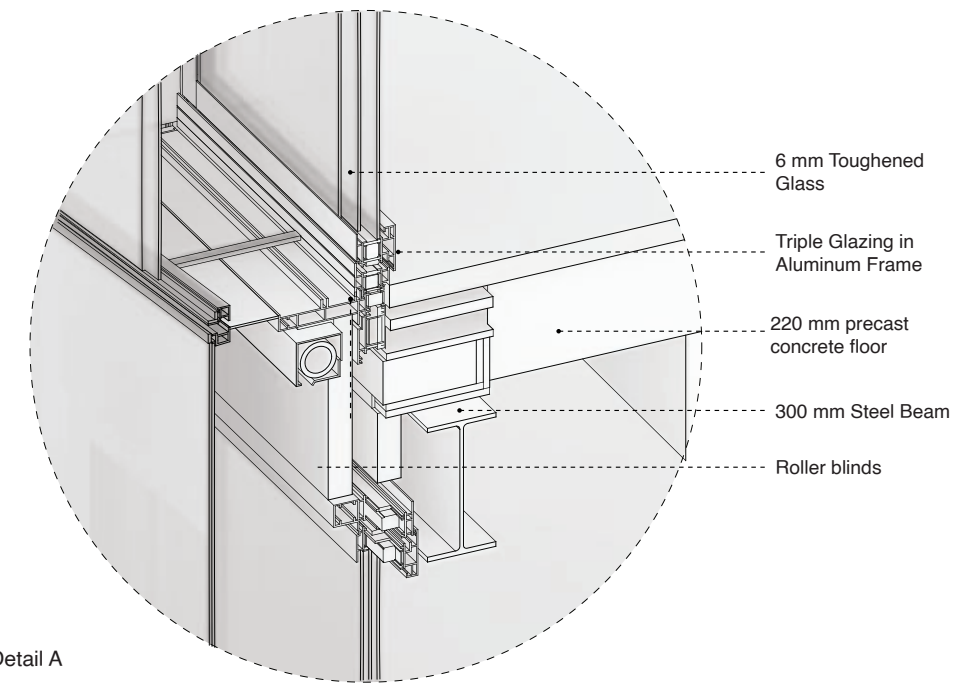
The class paired areas of investigation and speculation that are Tectonics -predominantly building envelopes- and Performance -largely consisting of technical , technological , cultural and environmental dimensions. The seminar culminates with each group reformulating their initial tectonic conjectures to adapt to a slightly altered design scenario. In re-informing the origins of the work, the class intends to search for a novel set of formal, geometrical and technological associations to yield a new tectonic coherence.

Academic Work

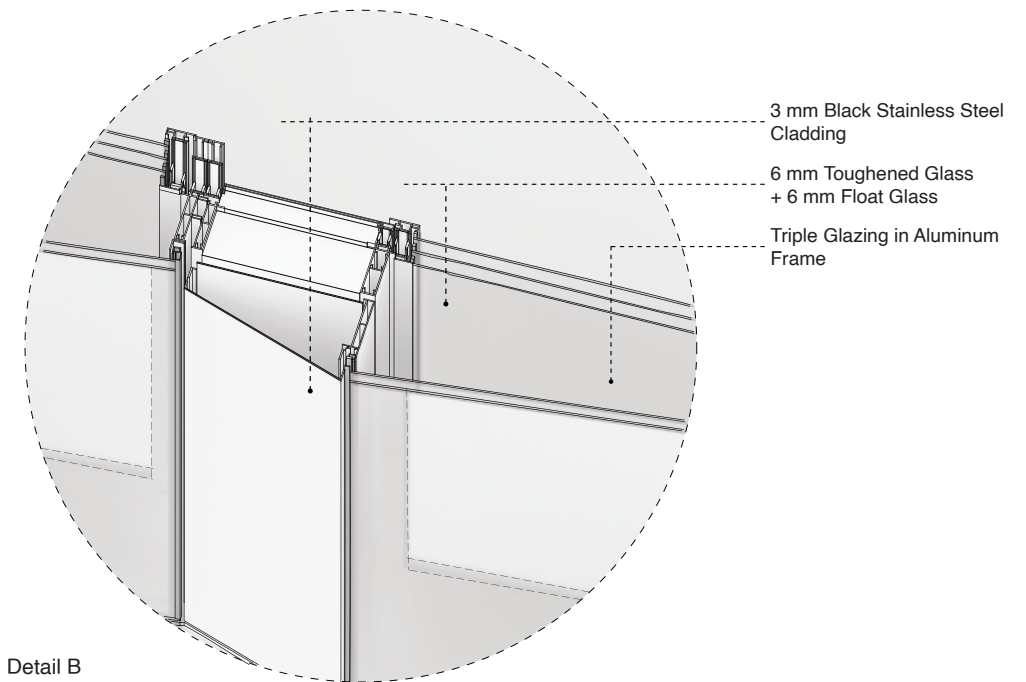




Documented Chunk A

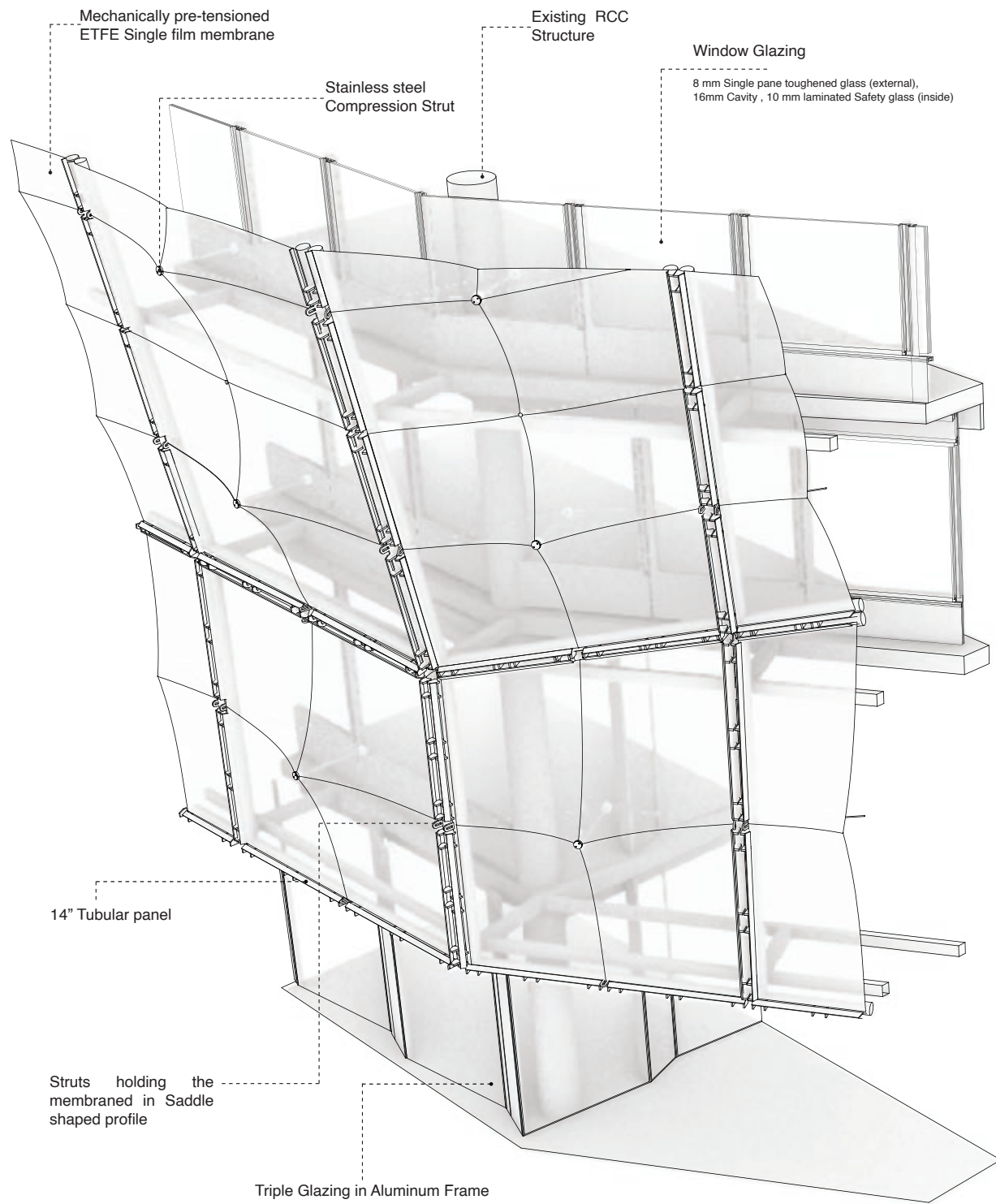


Detail A

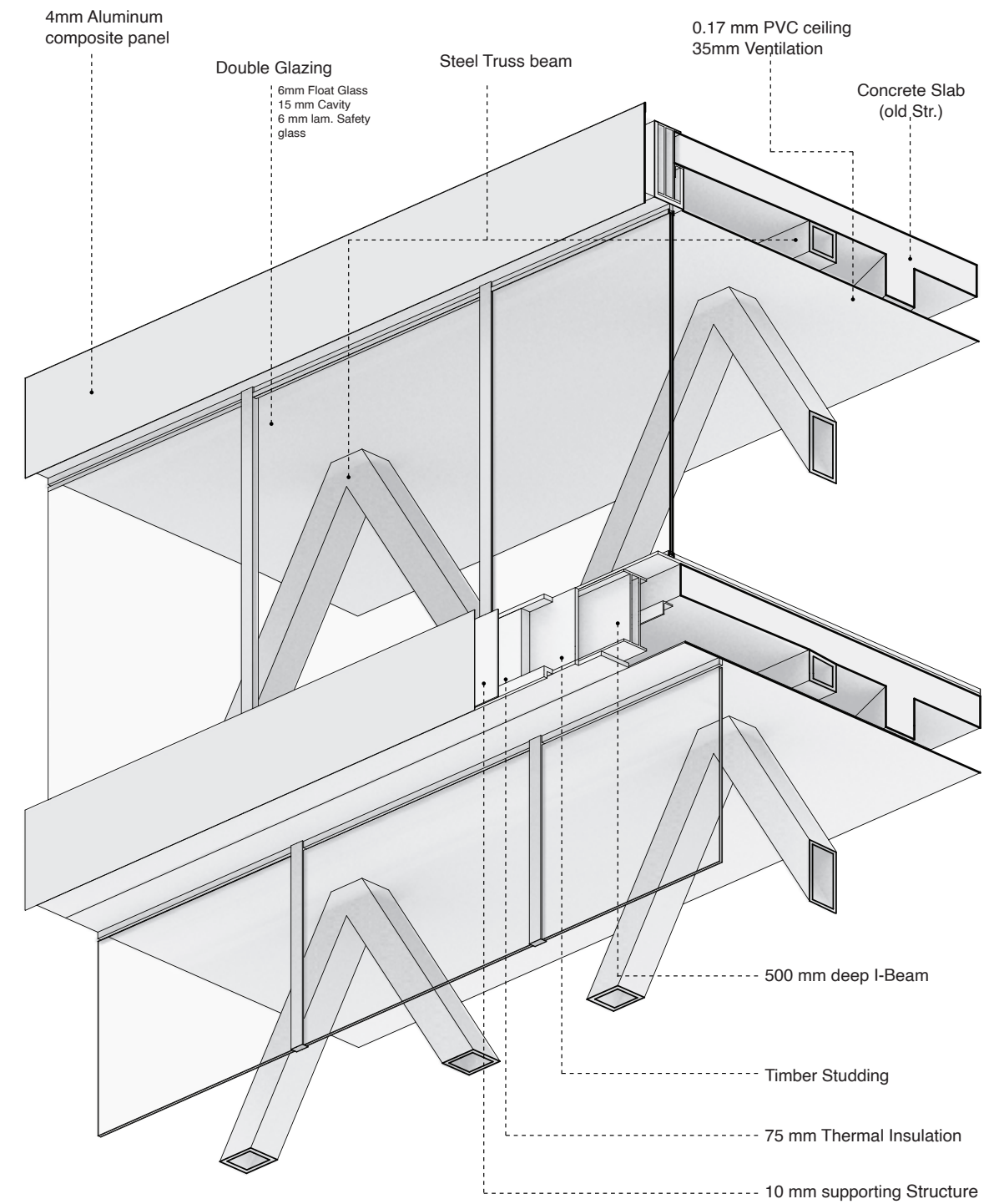


Detail B

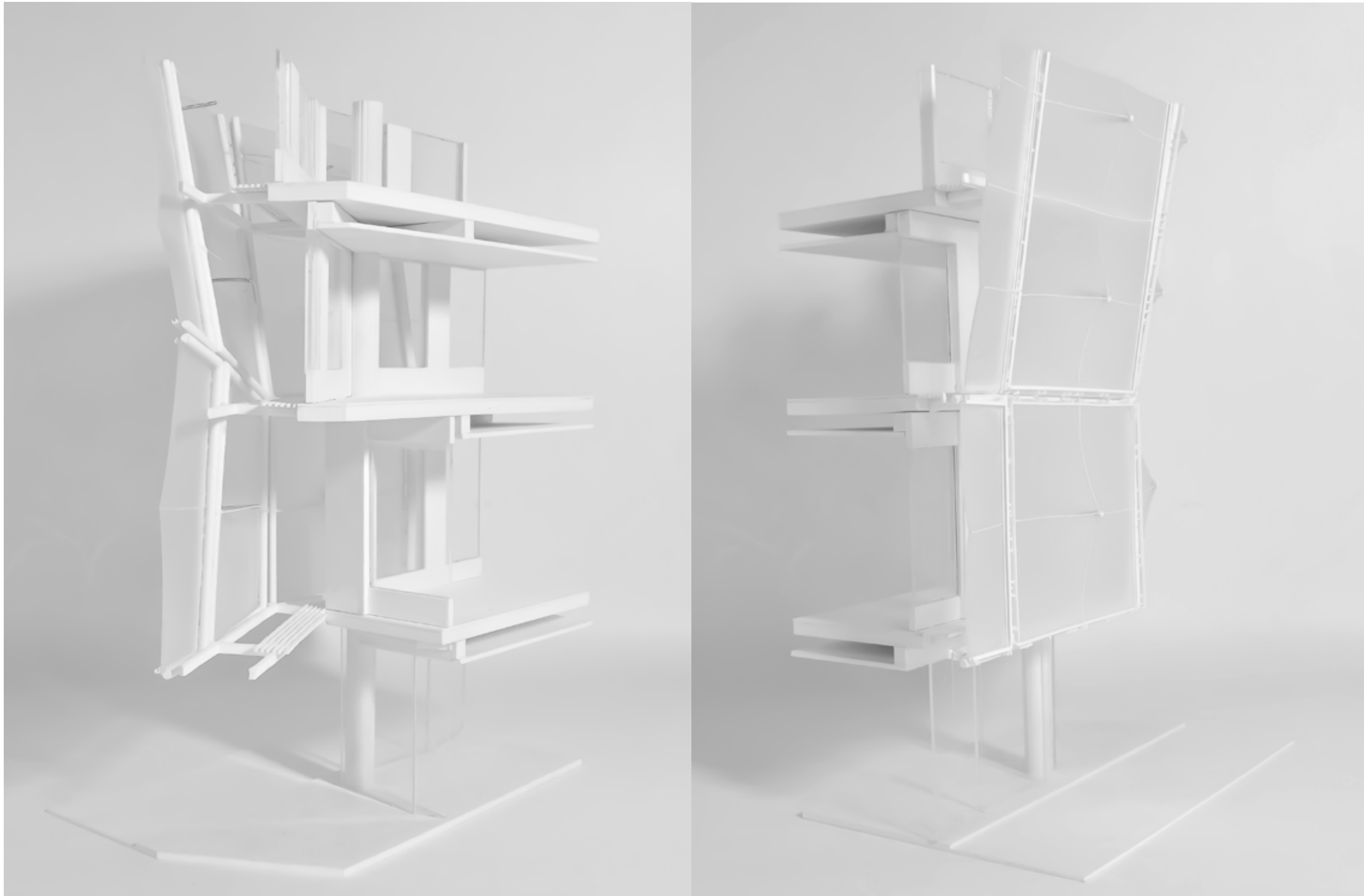
Documented Details of Prefabricated Panels



Proposed transformation



Documented Interior Courtyard Glass Curtain-wall Detail





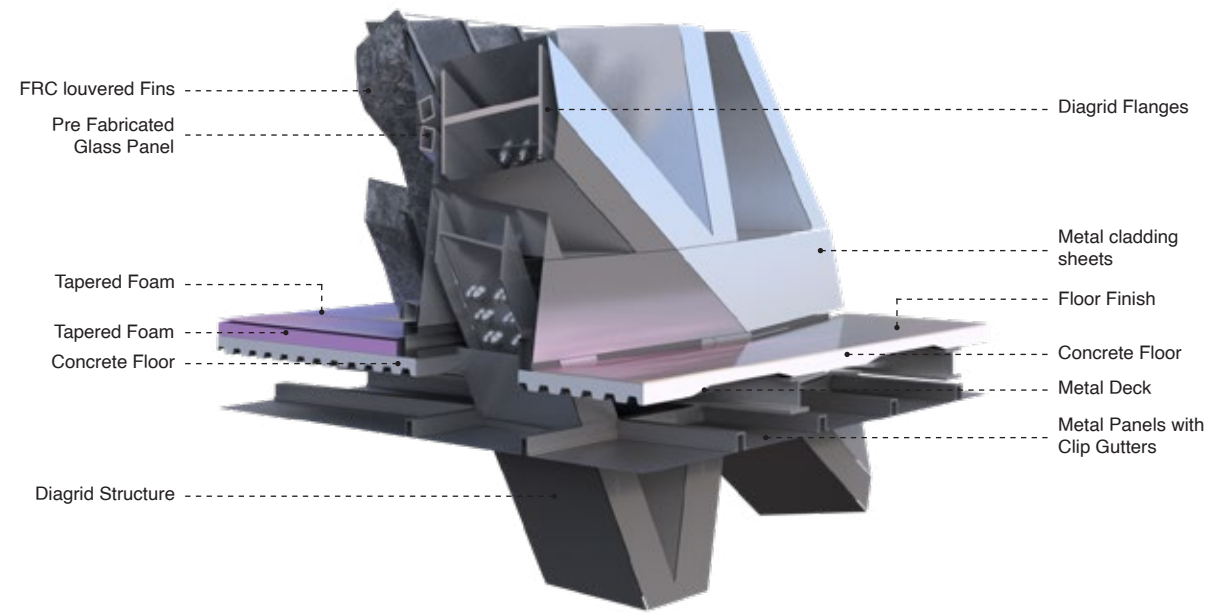
05

DESIGN DEVELOPMENT - Atlanta Public Library

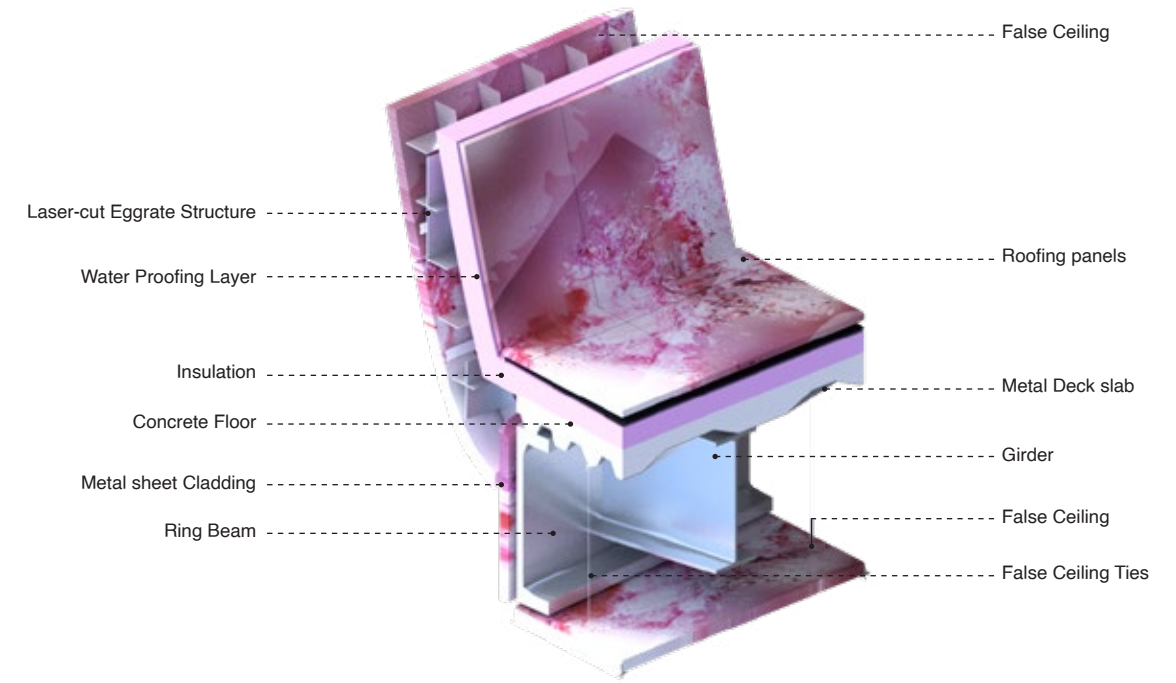
Academic Work

SCI_Arc Fall'19
Advisor : Herwig Baumgartner
Collaboration : Hiral Ahir, Richard Mapes,
Julia Pike, Justine Polin, Kumaran Parthiban,
Priyanka Rajani, Caleb Roberts & Irvin Shaifa

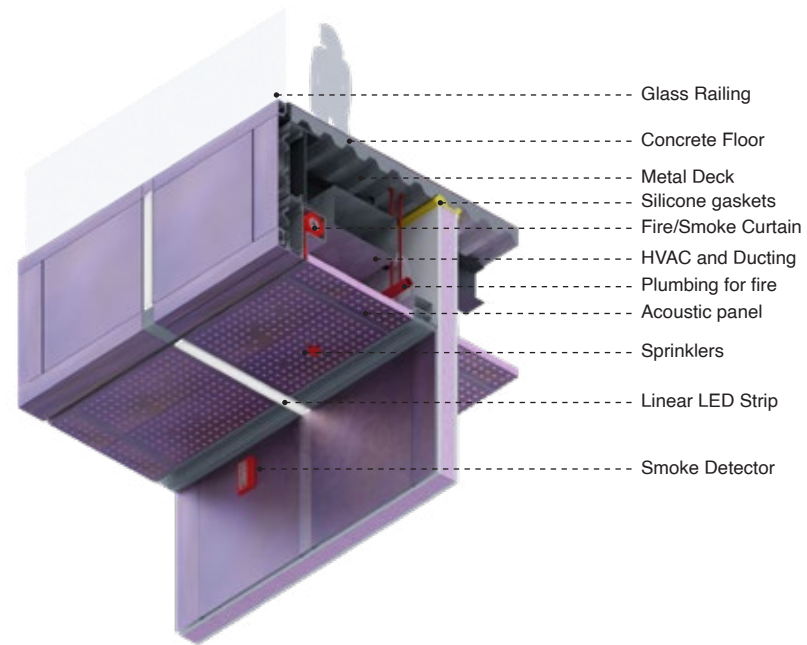
The seminar selects a project from the Spring 2019 design studio and asks 10 students to collaborate and create a office like strategies to develop the design project for Design Development. The drawings / illustrations shown in the following pages are produced in collaboration by Yash Mehta, Hiral Ahir & Irvin Shaifa.



Diagrid Connection Detail



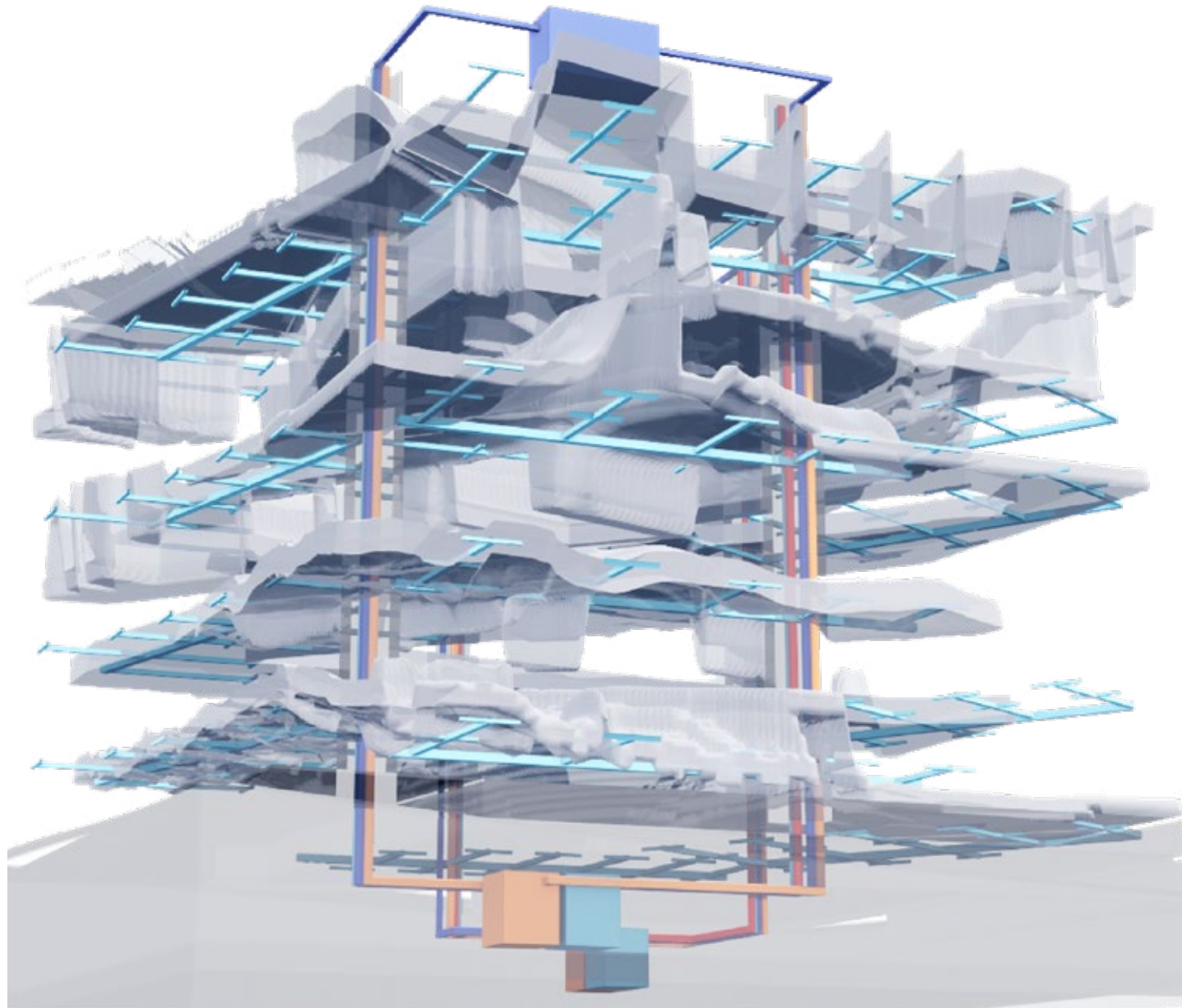
Roof Detail Chunk A



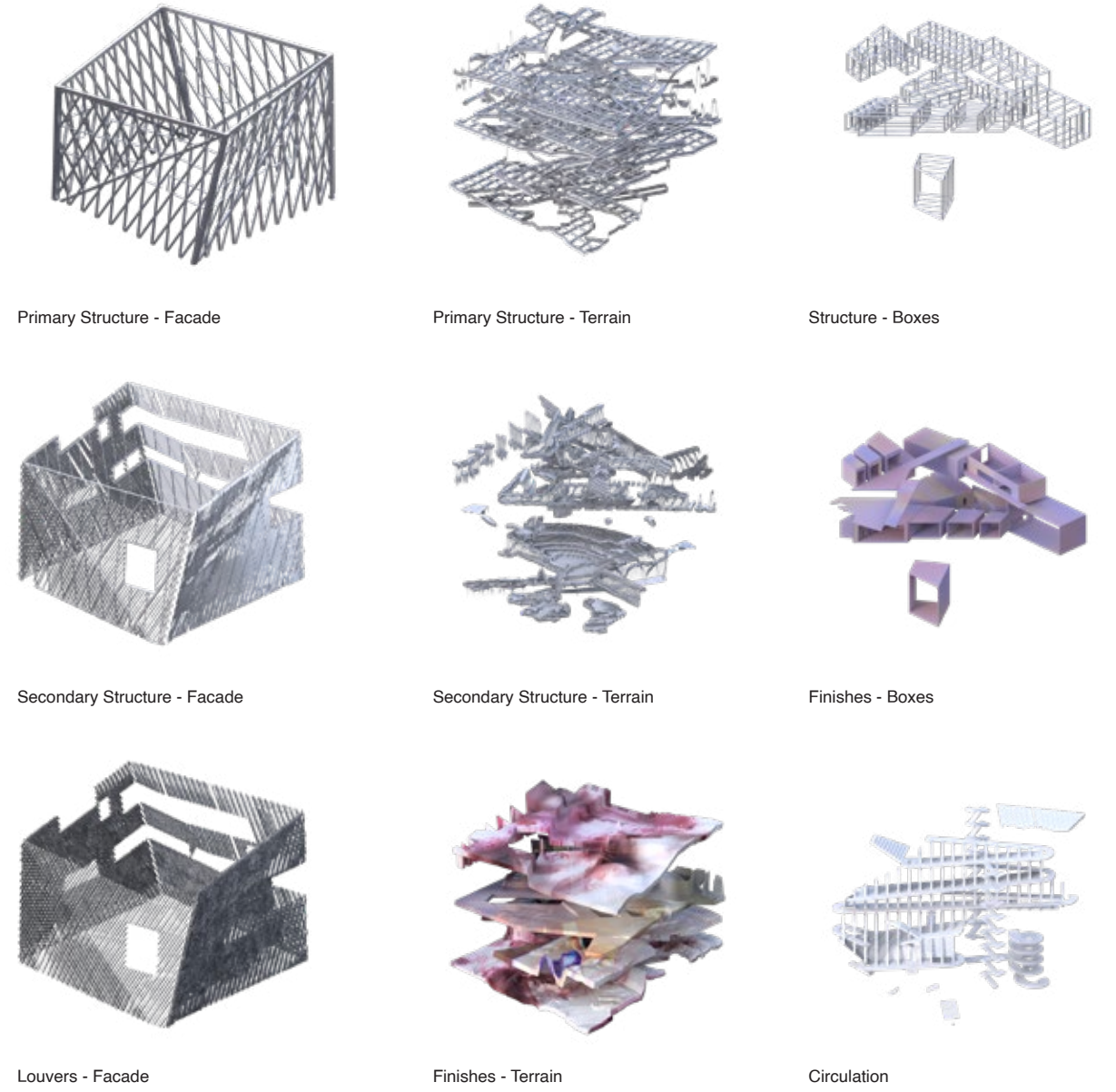
Ceiling, Lighting and Acoustic Details



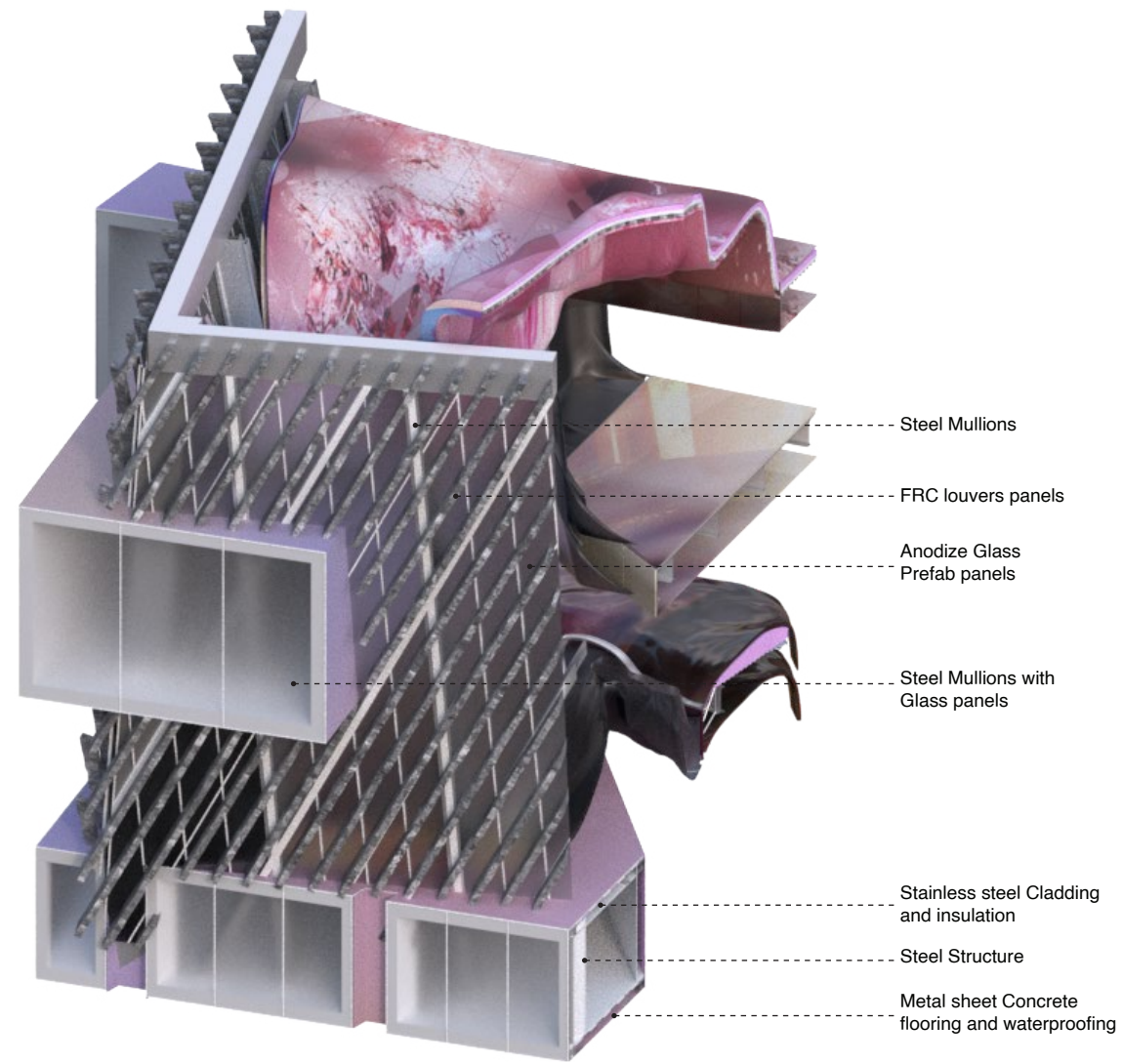
Roof Detail Chunk B



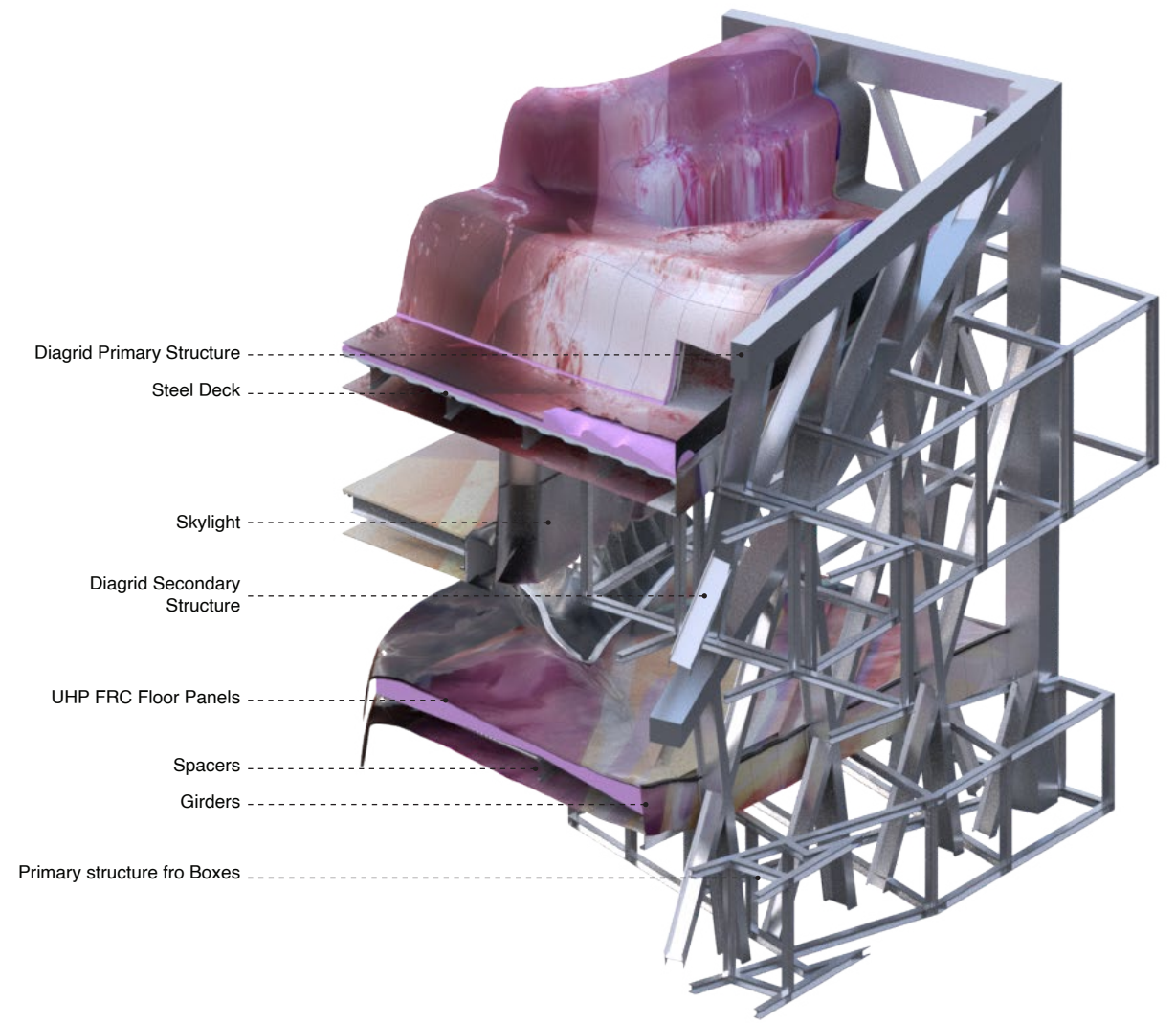
HVAC System Diagram



Building Components



Building Chunk Detail A



Building Chunk Detail B

Due to a confidentiality agreement and based on my previous contract; I cannot showcase the works as part of my Portfolio.

If you wish to find out about them / my performance in general; you can contact the offices directly for reference.

HDA-X

Design Intern

Hernan Diaz Alonso
Rachel McCall

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Projects : Car experince Center; Nike Vapourmax shoes; Augmented Fashion.

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Project Architect

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Prakruti Desai
Suraj Shangvi

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*Projects : Shahid Smarak (Project Architect); Urban Initiatives (Publication);
SR University (Designer).*

AJA Architects

Architectural Intern

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*Projects : 55B Ahuja Apartment (Interiors), Cater Road Cycling Project (Designer);
Linking Road Project -I (Designer); Villa in Palms (Conceptual design /
Model making / Presentations); Chhavi House (Construction Drawings).*



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