

Document Information

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College of Architecture and Design

Graduation Program - M.Arch

Comprehensive Studio

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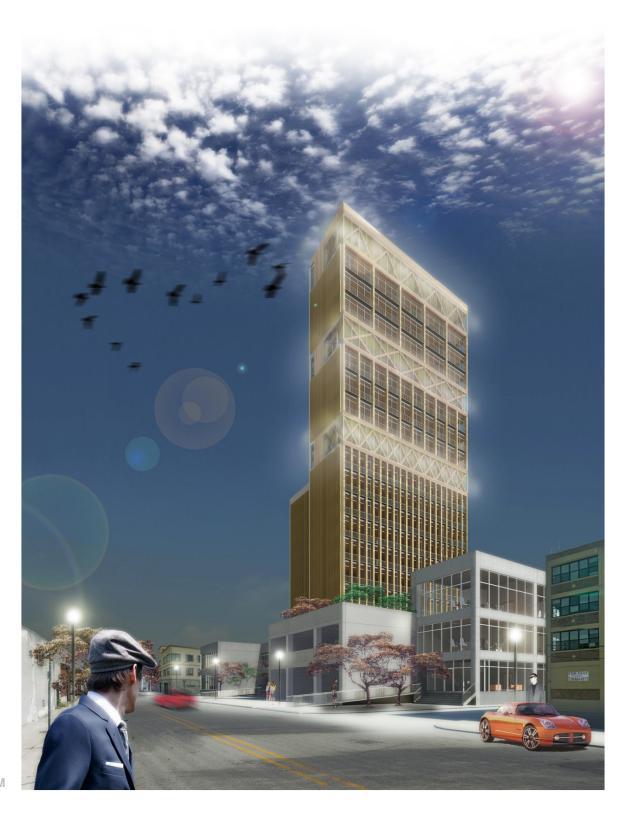
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	Manhattan	
• Site	Brooklyn	





Circulation & Bus Routes

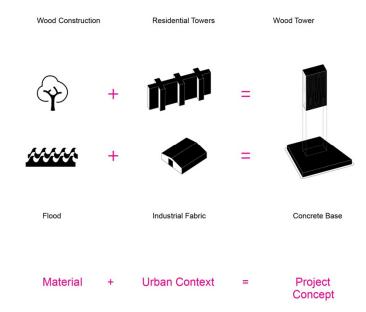
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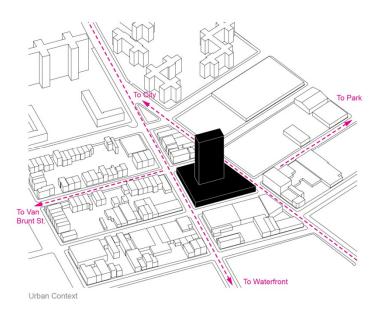
Red Hook Community Farm

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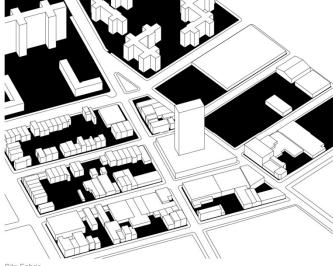
Red Hook

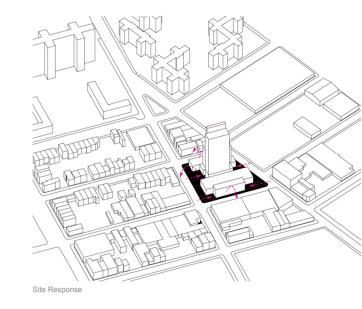
Site Elevation

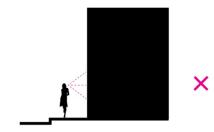


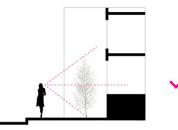


SITE ANALYSES AND CONCEPTUAL DESIGN







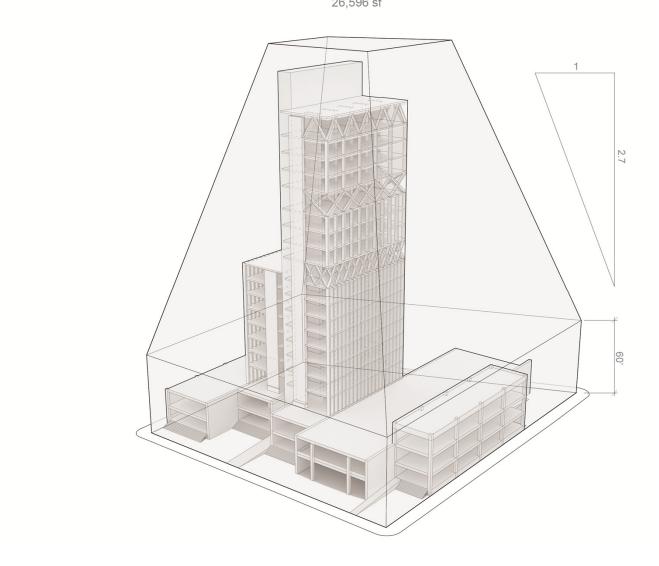


Pedestrian Response

Site Fabric

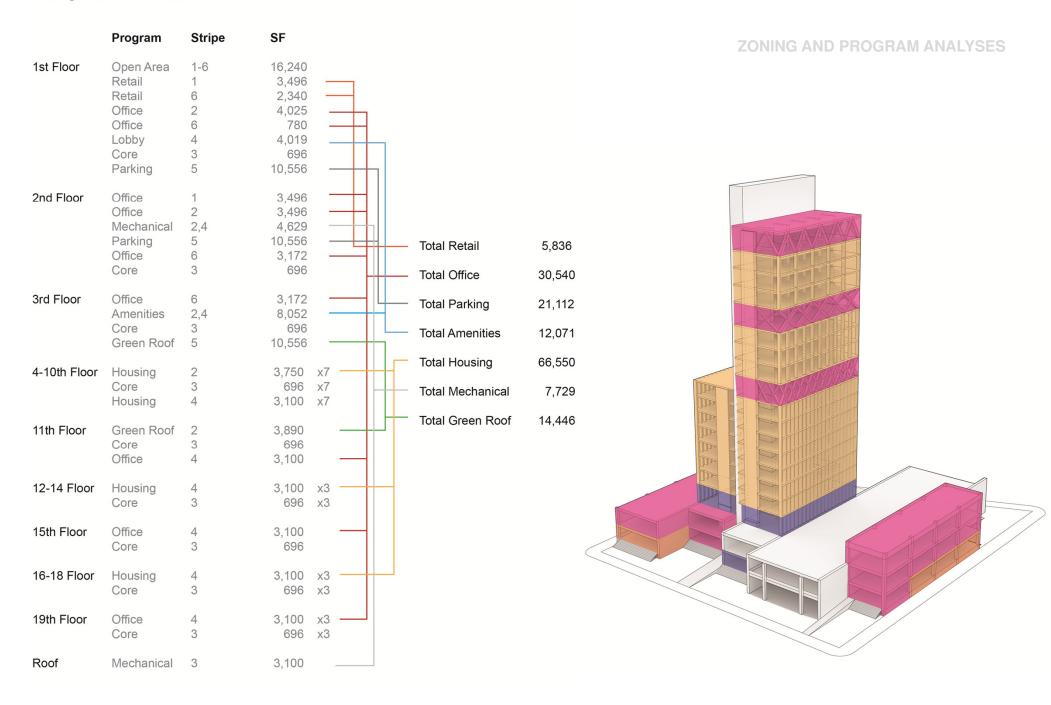
Zoning Analysis

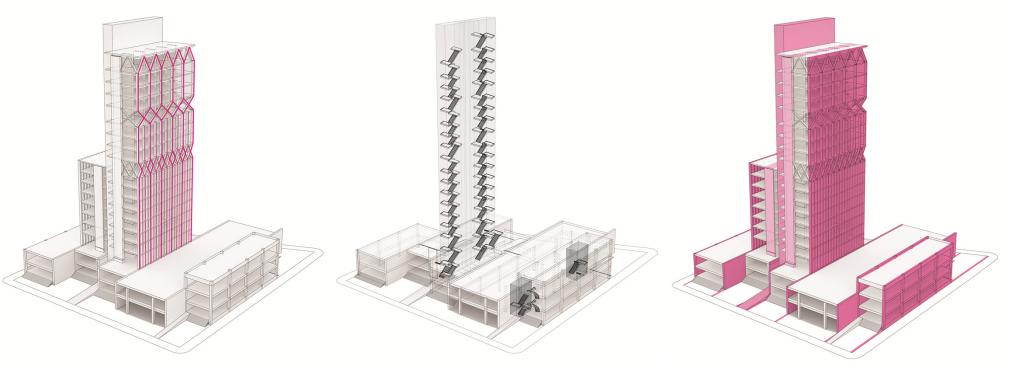
M-1 Zone R-7 Overlay			Lot Area: Building Area:	43,965 sf 150,186 sf
R-7	FAR	OSR	Building Height	Parking
	0.87-3.44	15.5-25.5%	Sky Exposure	60%
Required	151,240 sf	23,279 sf min		60 spaces
Provided	3.41	16,240 sf + <u>10,556 sf</u> (greenroof) 26,596 sf	250'	50 spaces



Program Analysis

Building Area: 150,186 sf



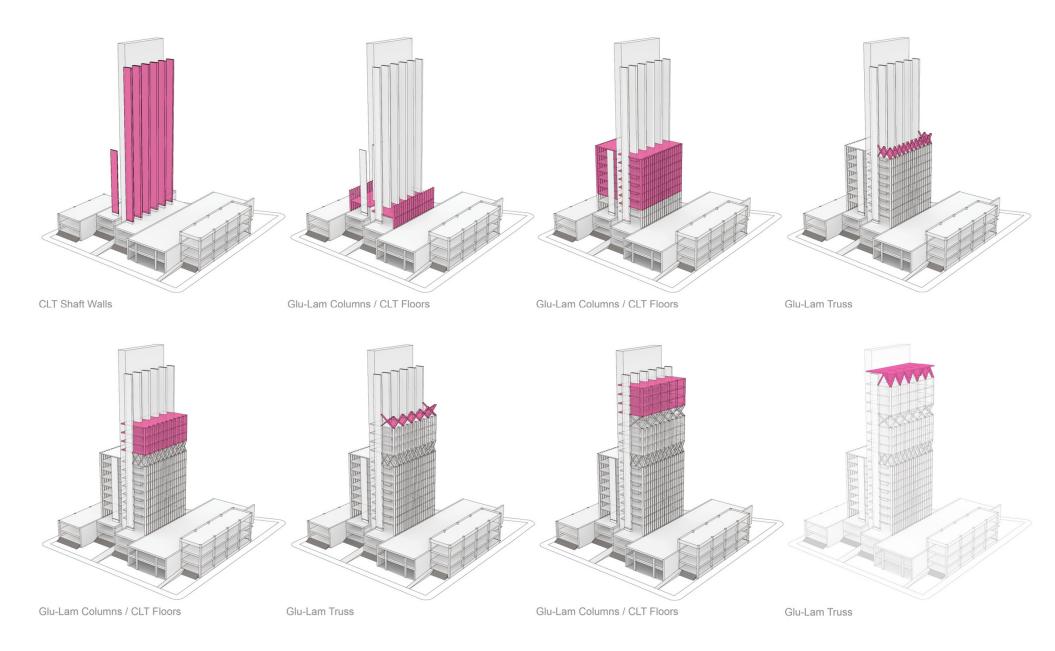


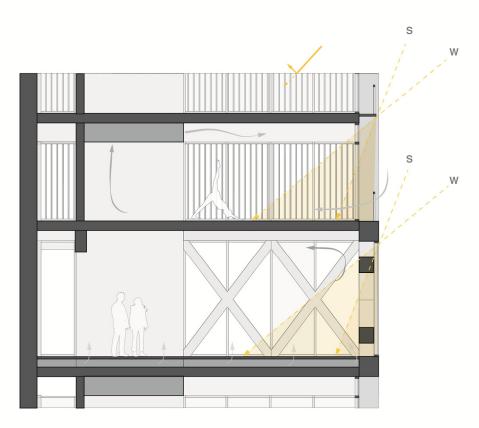
Structure Pattern

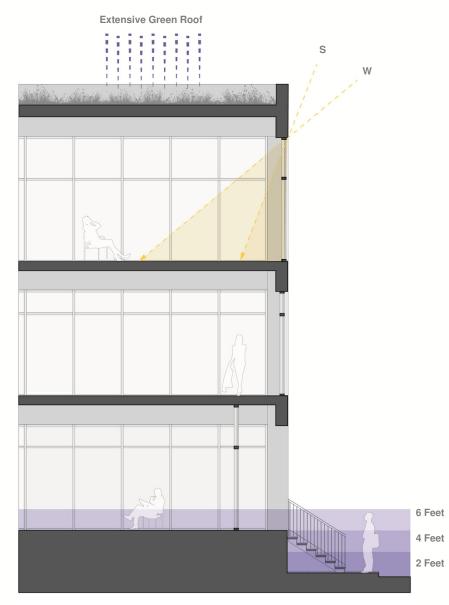
Egress

Axis of Strength and Programmatic Layers

MATERIAL ORGANISM CONTRUCTION SEQUENCE

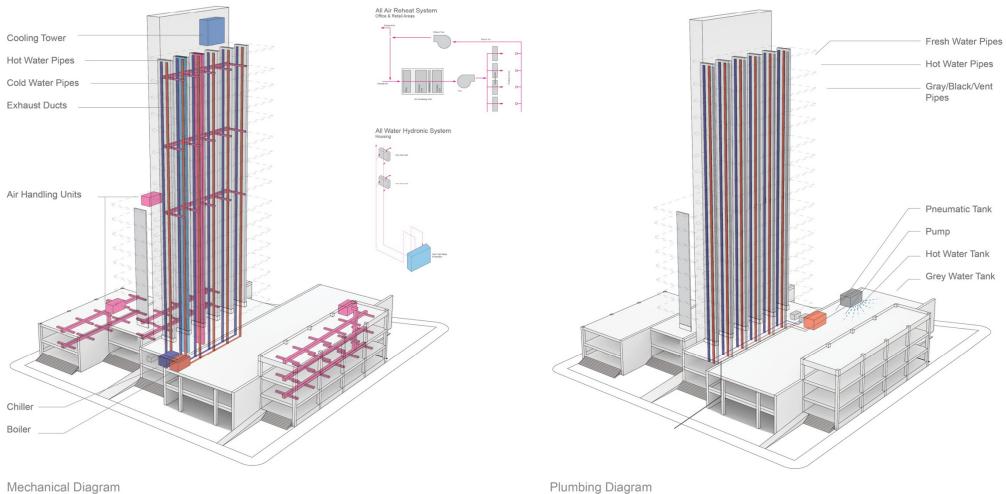


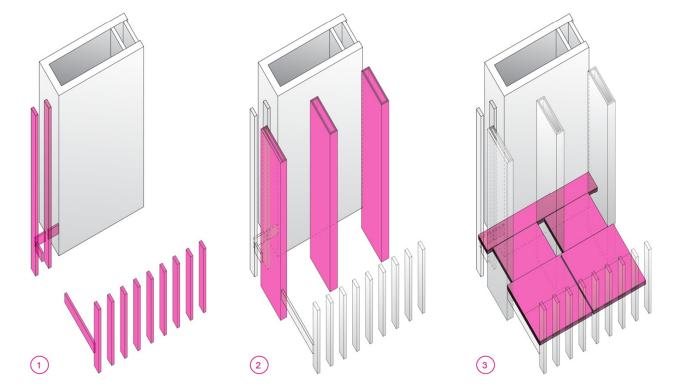


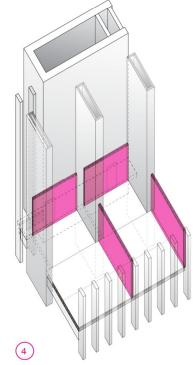


OFFICE SPACE

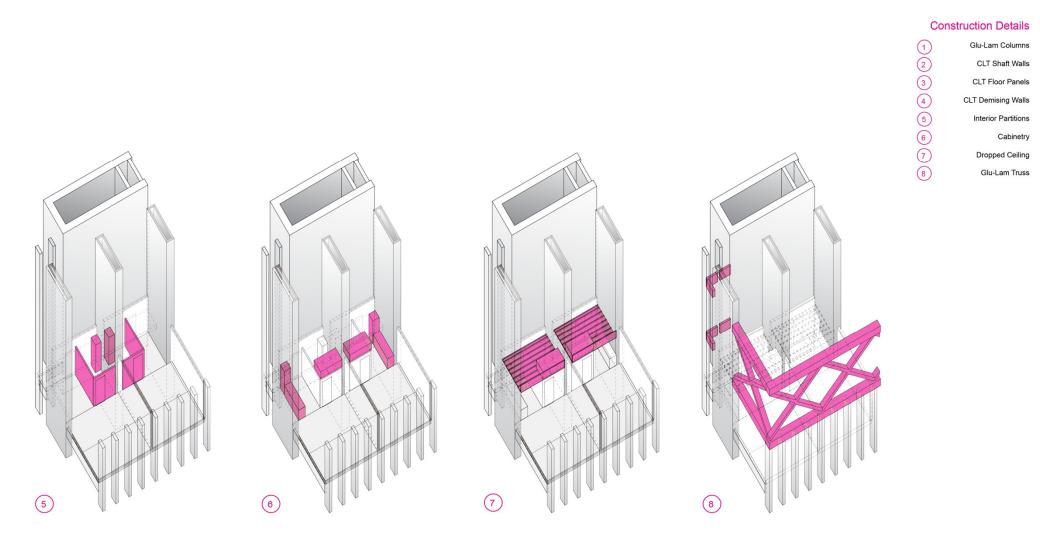
ENVIRONMENTAL AND FUNCTIONING SYSTEMS

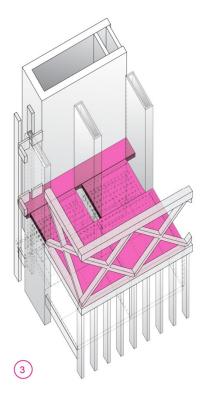


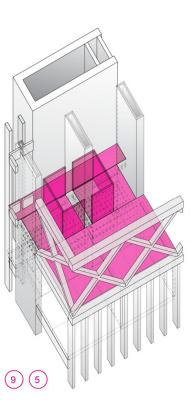


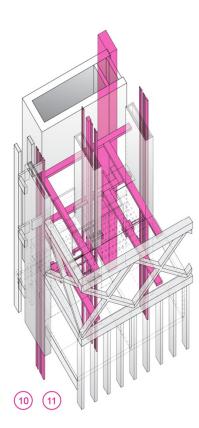


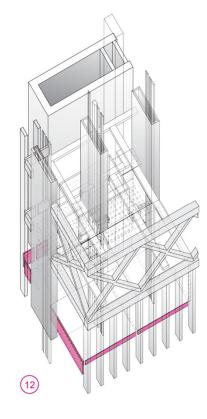
MATERIAL ORGANISM CONSTRUCTION ASSEMBLY



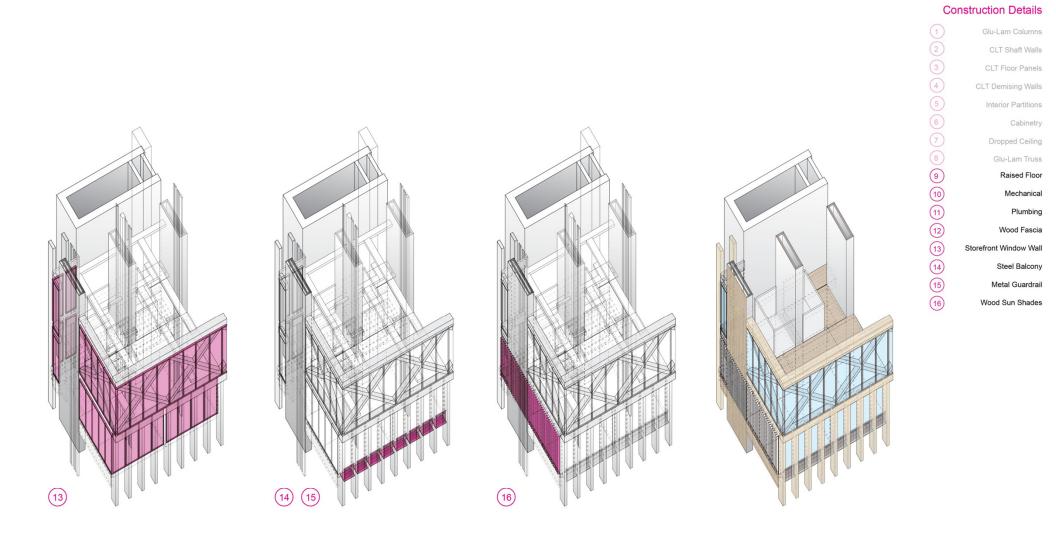








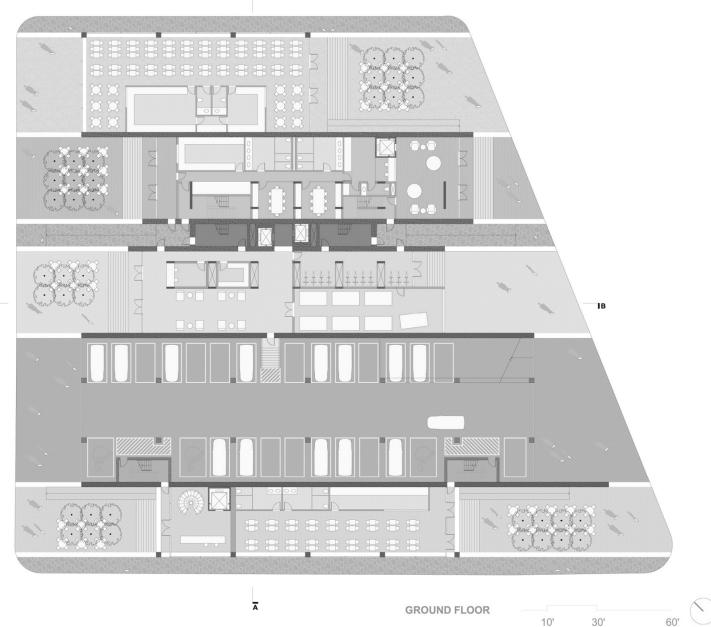
MATERIAL ORGANISM CONSTRUCTION ASSEMBLY



CONTEXT PLAN



200' 100′ 50'



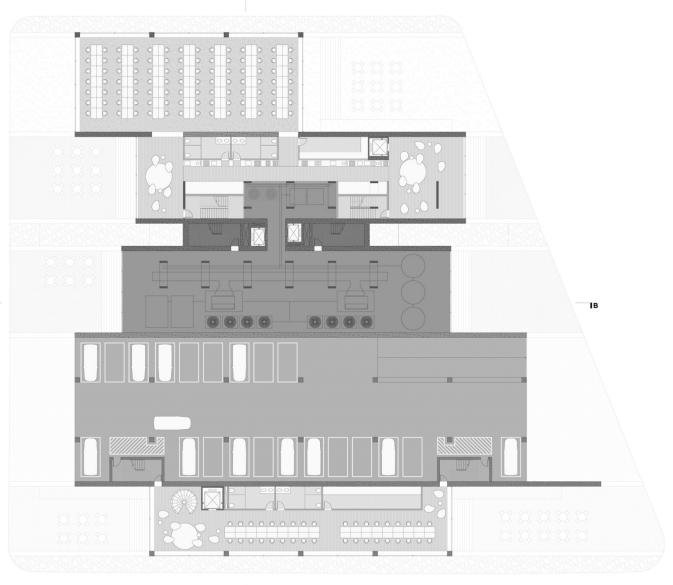
10'

30'

<u>A</u>

в

PLAN DRAWINGS

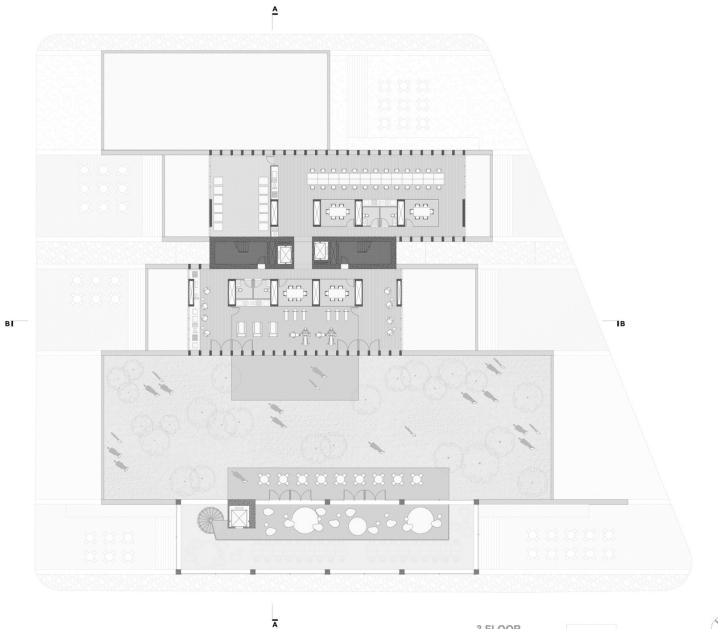


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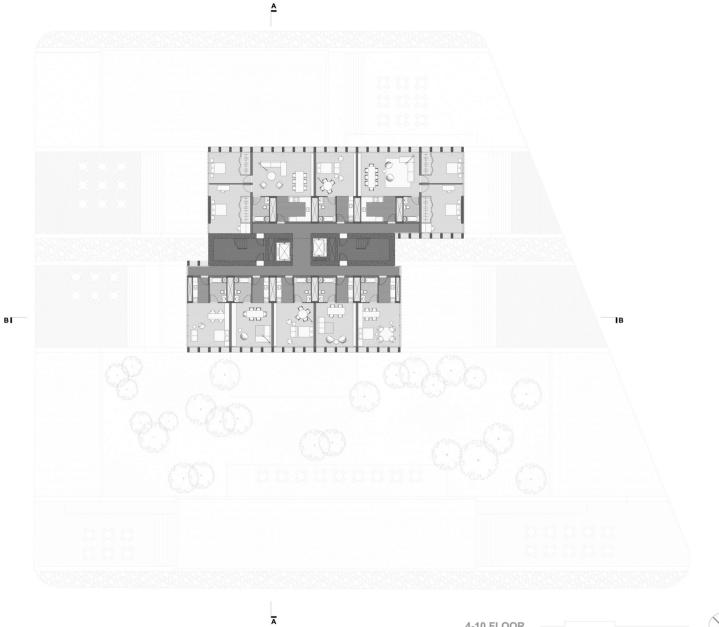
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2 FLOOR 10' 30' 60'

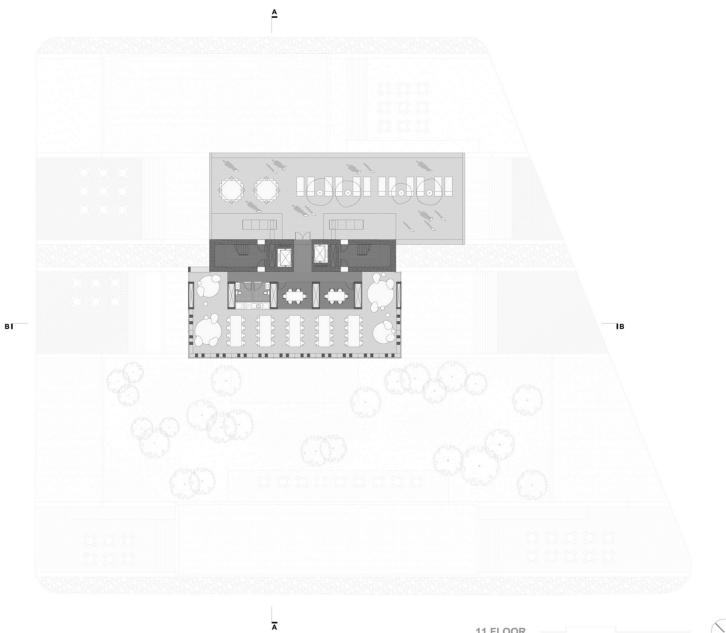


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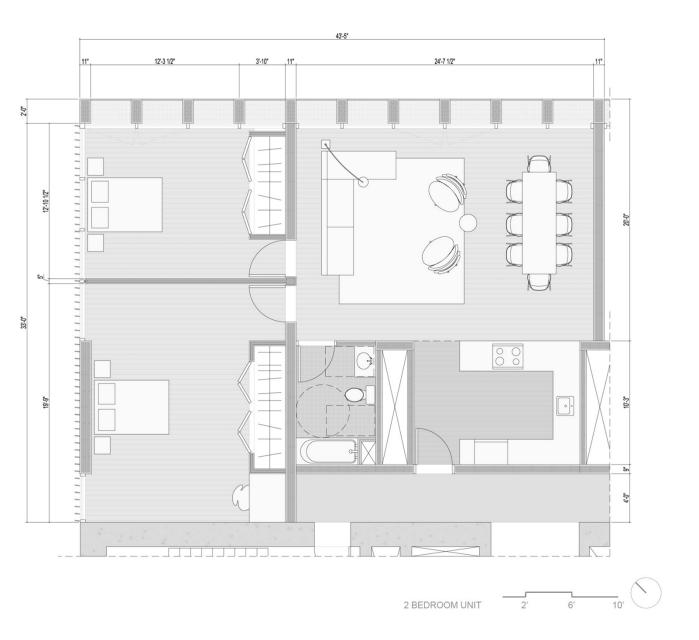
4-10 FLOOR 10' 30' 60'

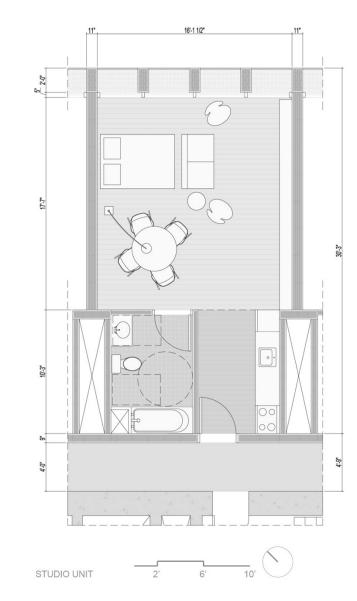
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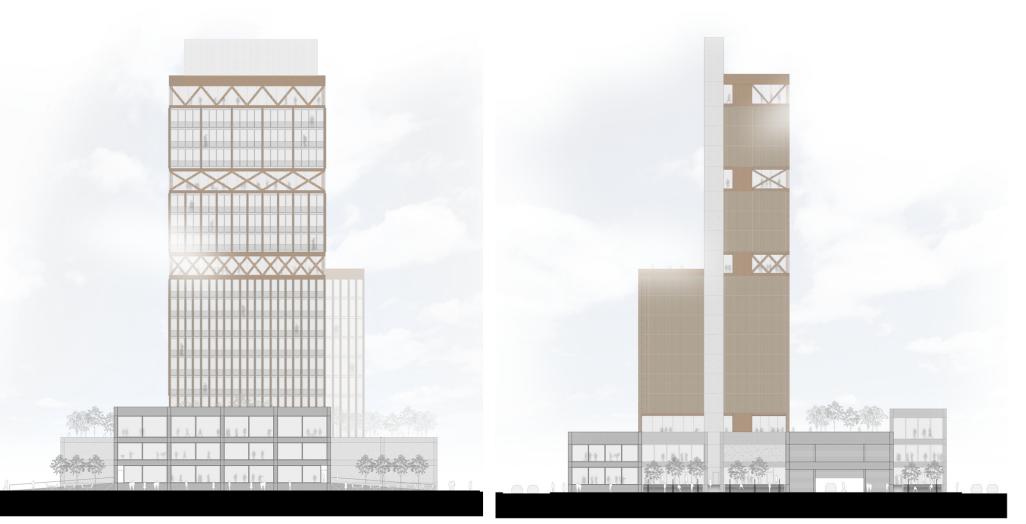


11 FLOOR 10' 30' 60'





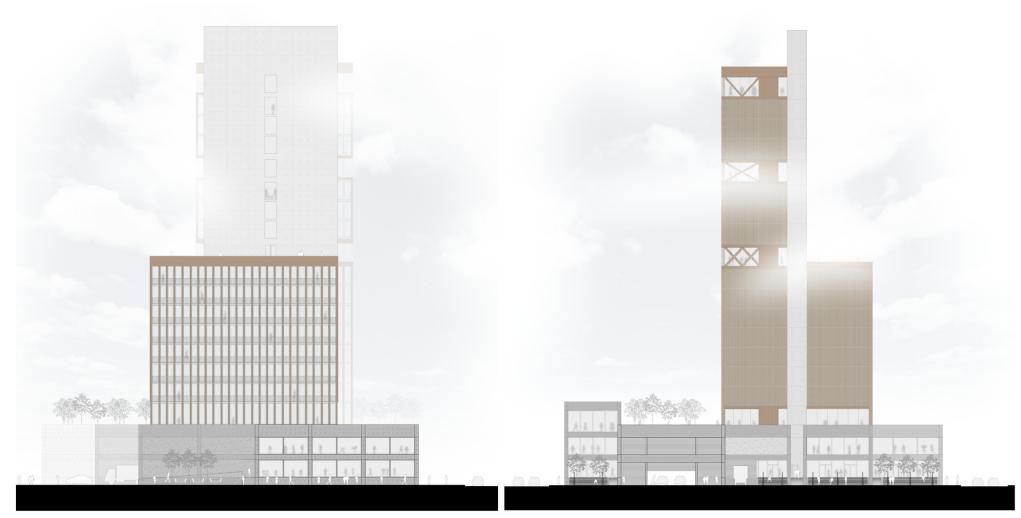




SOUTH ELEVATION

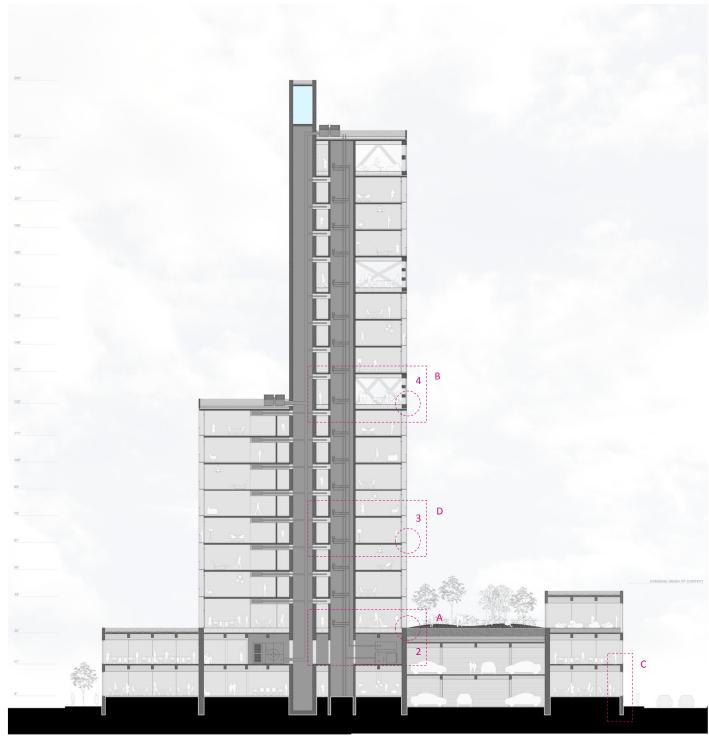
WEST ELEVATION

FACADES DRAWINGS

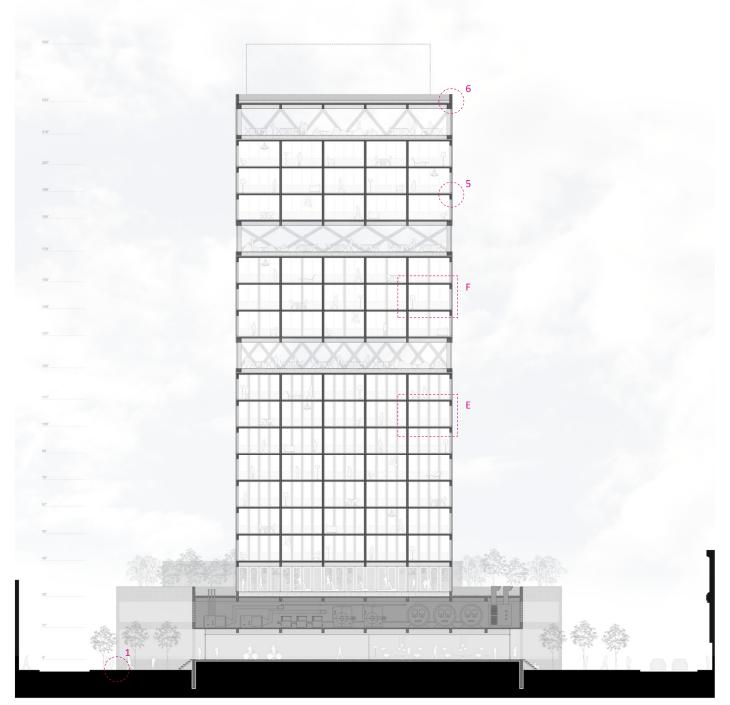


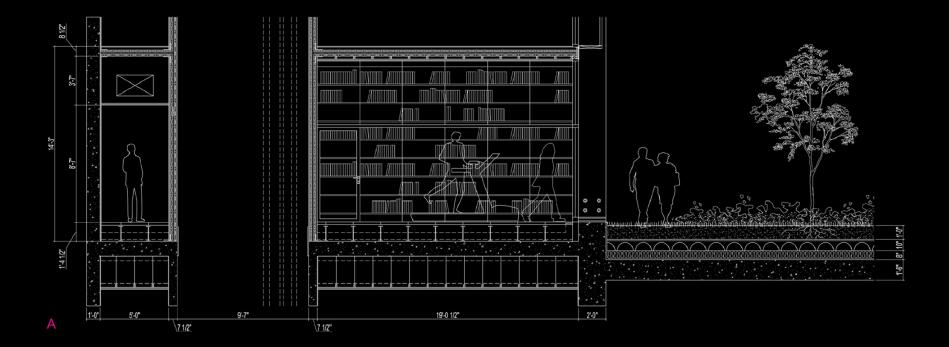
NORTH ELEVATION

EAST ELEVATION



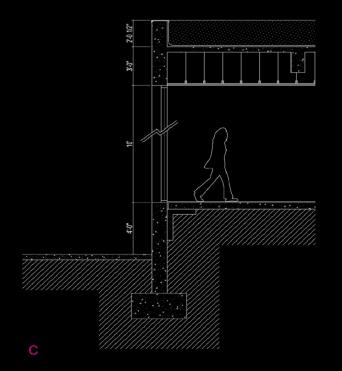
SECTION DRAWINGS

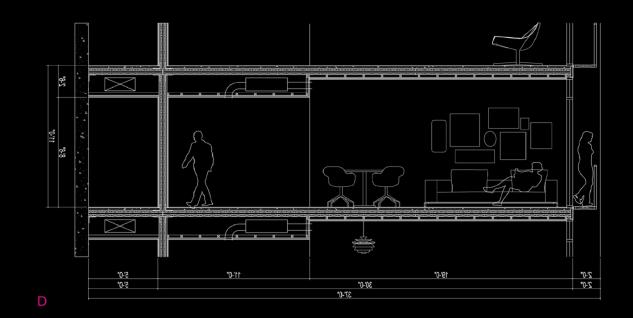


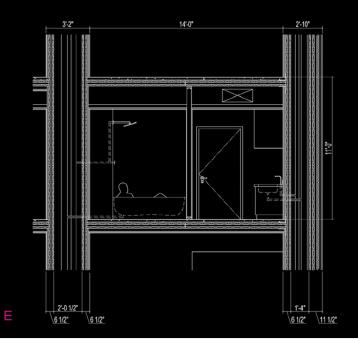


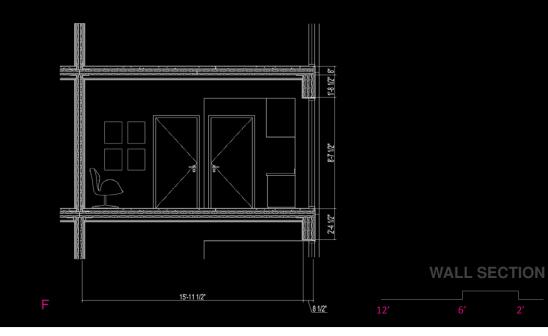


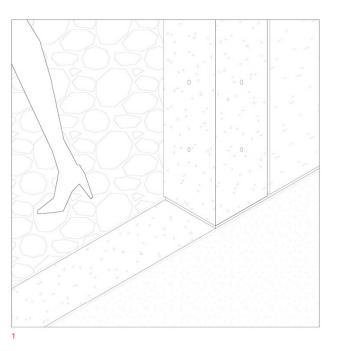
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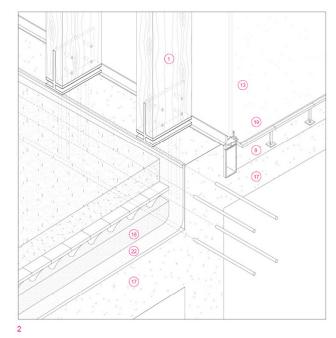


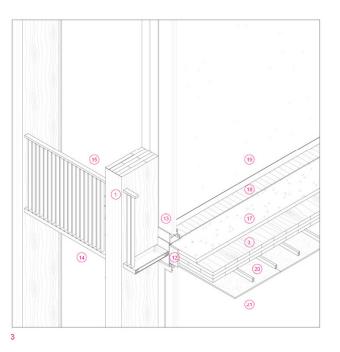






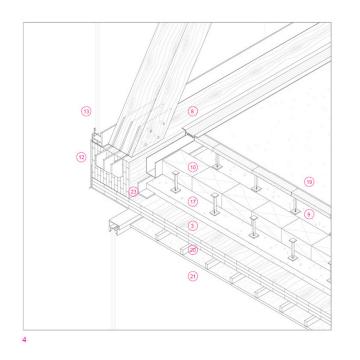


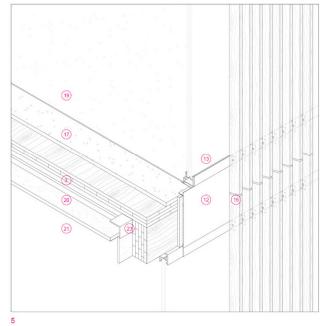


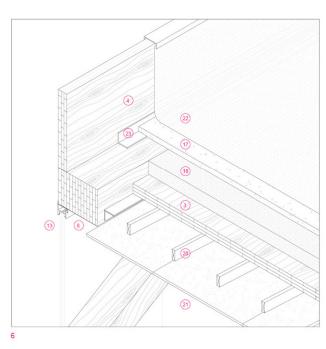




DETAILS AXONOMETRICS





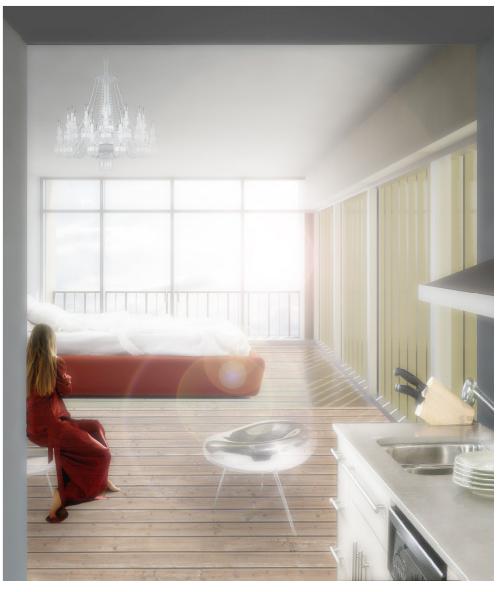


Construction Details

Storefront Window Wall	(13)	Glu-Lam Columns
Steel Balcony	14	CLT Shaft Walls
Metal Guardrail	(15)	CLT Floor Panels
Wood Sun Shades	16	CLT Demising Walls
Concrete Slab	17	Interior Partitions
Insulation	18	Cabinetry
Finished Wood Flooring	(19)	Dropped Ceiling
2x Wood Framing	20	Glu-Lam Truss
Gypsum Board	21	Raised Floor
EDPM Roof Membrane	22	Mechanical
Steel Angle	23	Plumbing
		Wood Fascia



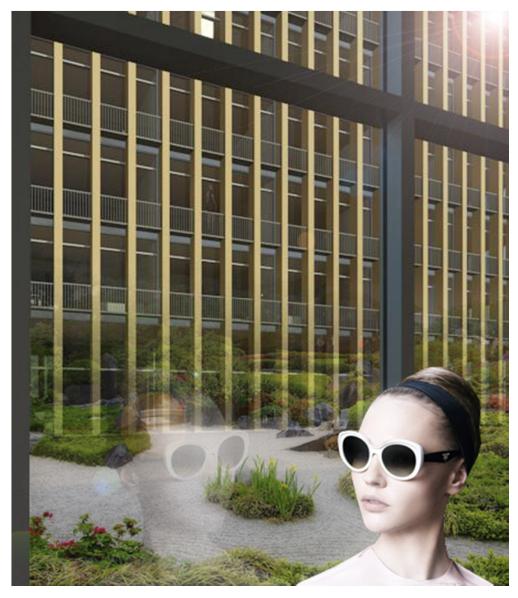
The trusses generate the open floor plan and communal spaces // OFFICE AREA



The CLT system produces the residential hive where the spans are minimal and privacy is required // RESIDENTIAL AREA



The concrete base relates directly to the contextual environment while raising the ground floor in response to flood concerns // OFFICE AREA



The recreational open area serves the community // OPEN SPACE

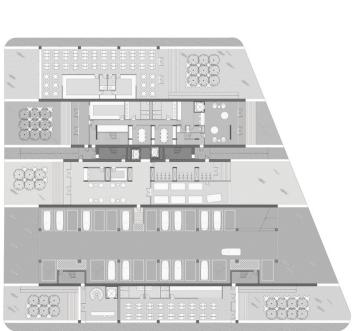


The 3RD floor holds the social activities and provides access to the green roof // COMMUNAL SPACE

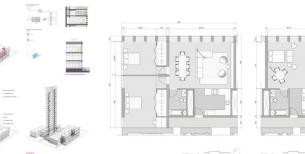


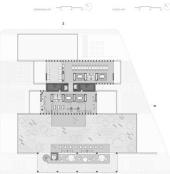




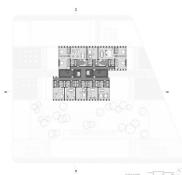








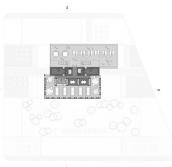
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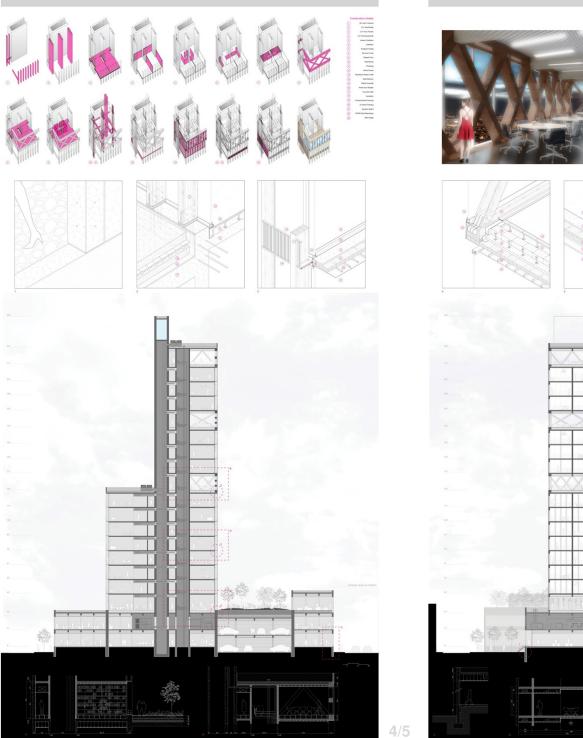
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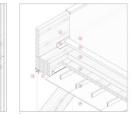


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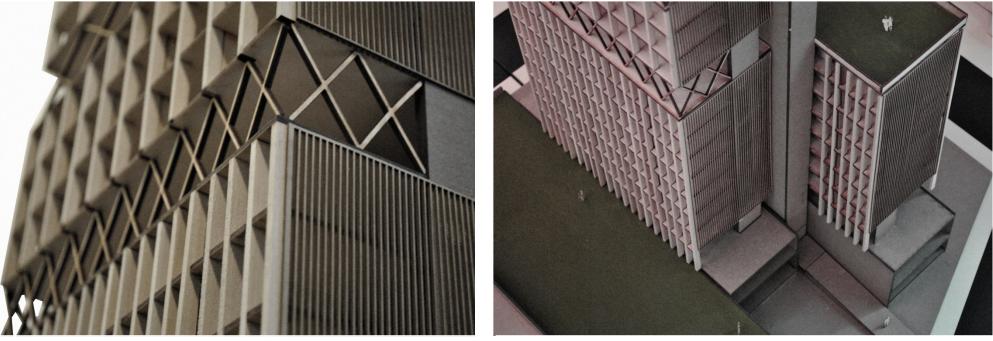




FINAL MODEL PICTURES



1 // OVERVIEW

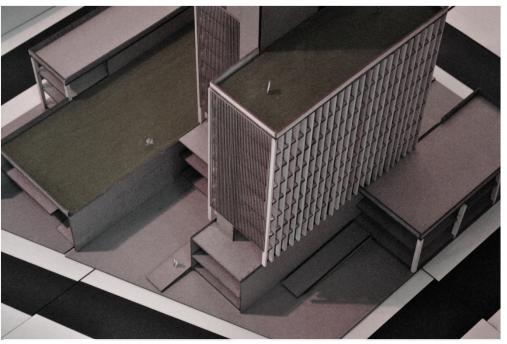


^{2 //} STRUCTURE TRANSITIONS

3 // STRIPES

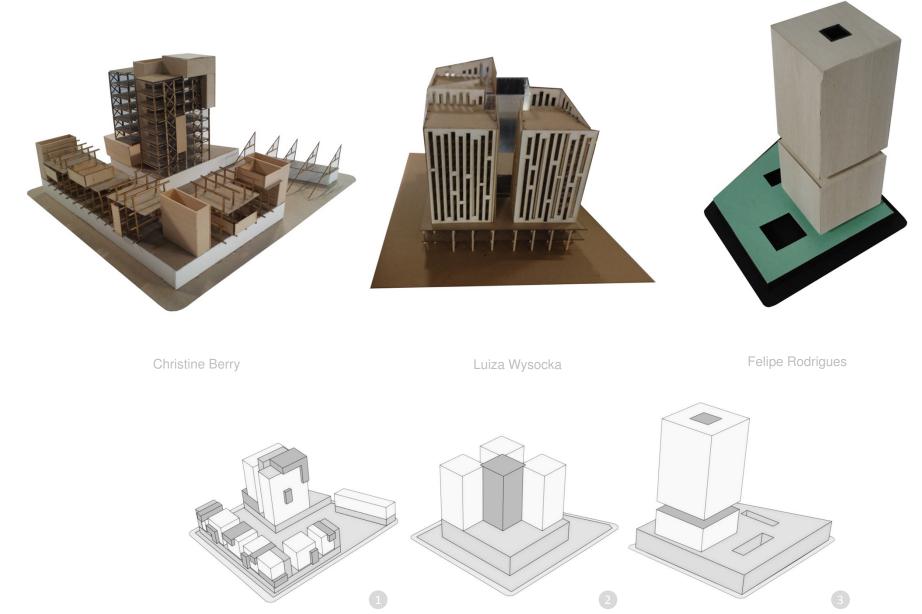






5 // ROOF GARDENS

INDIVIDUAL MATERIAL ORGANISM



APPENDIX

COLLECTIVE MATERIAL ORGANISM



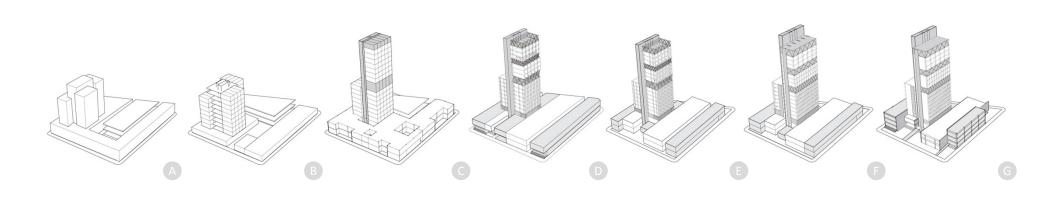


Envelope Model

Mid Term Model

Concept Model

Proposal Model



NJIT