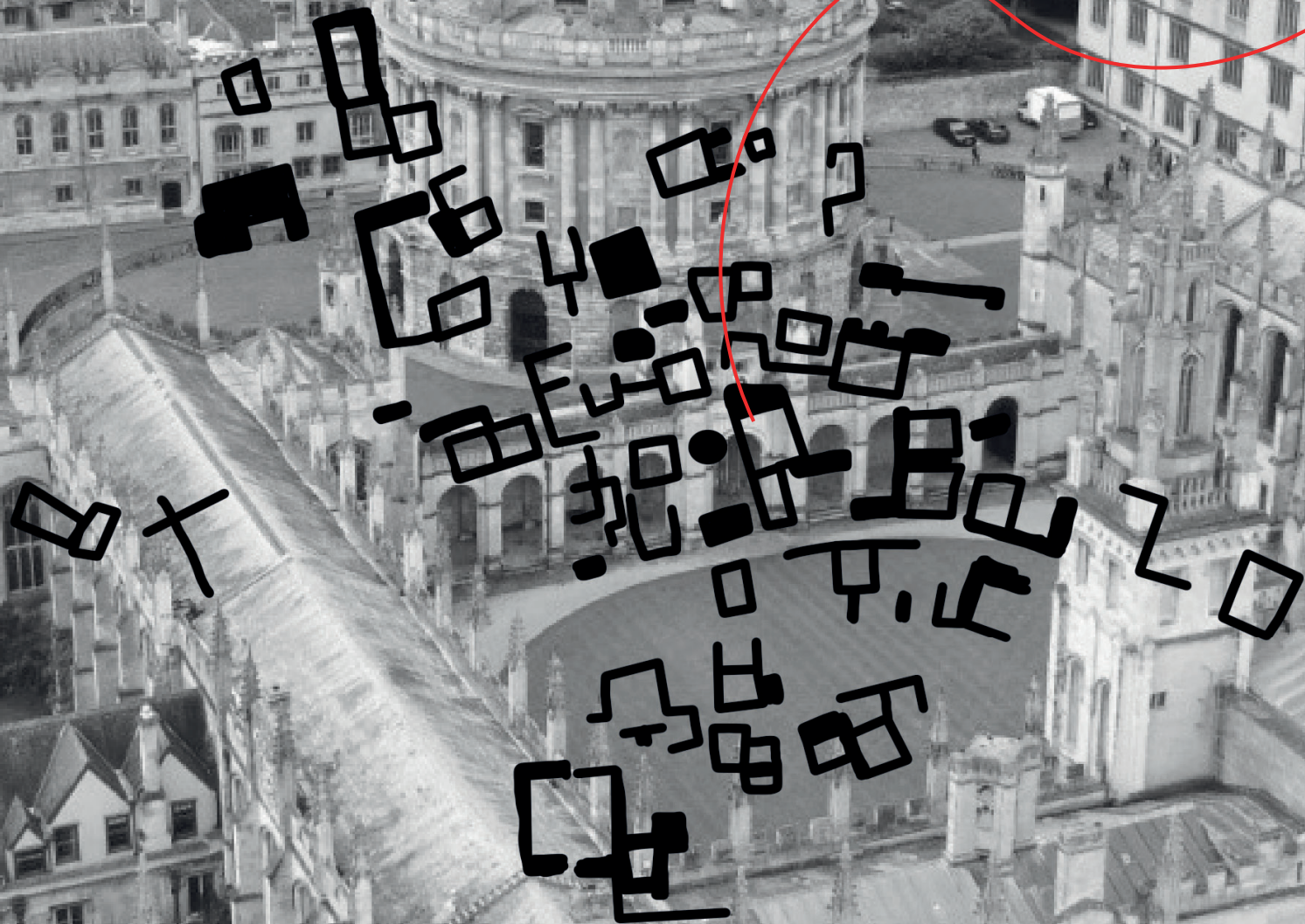
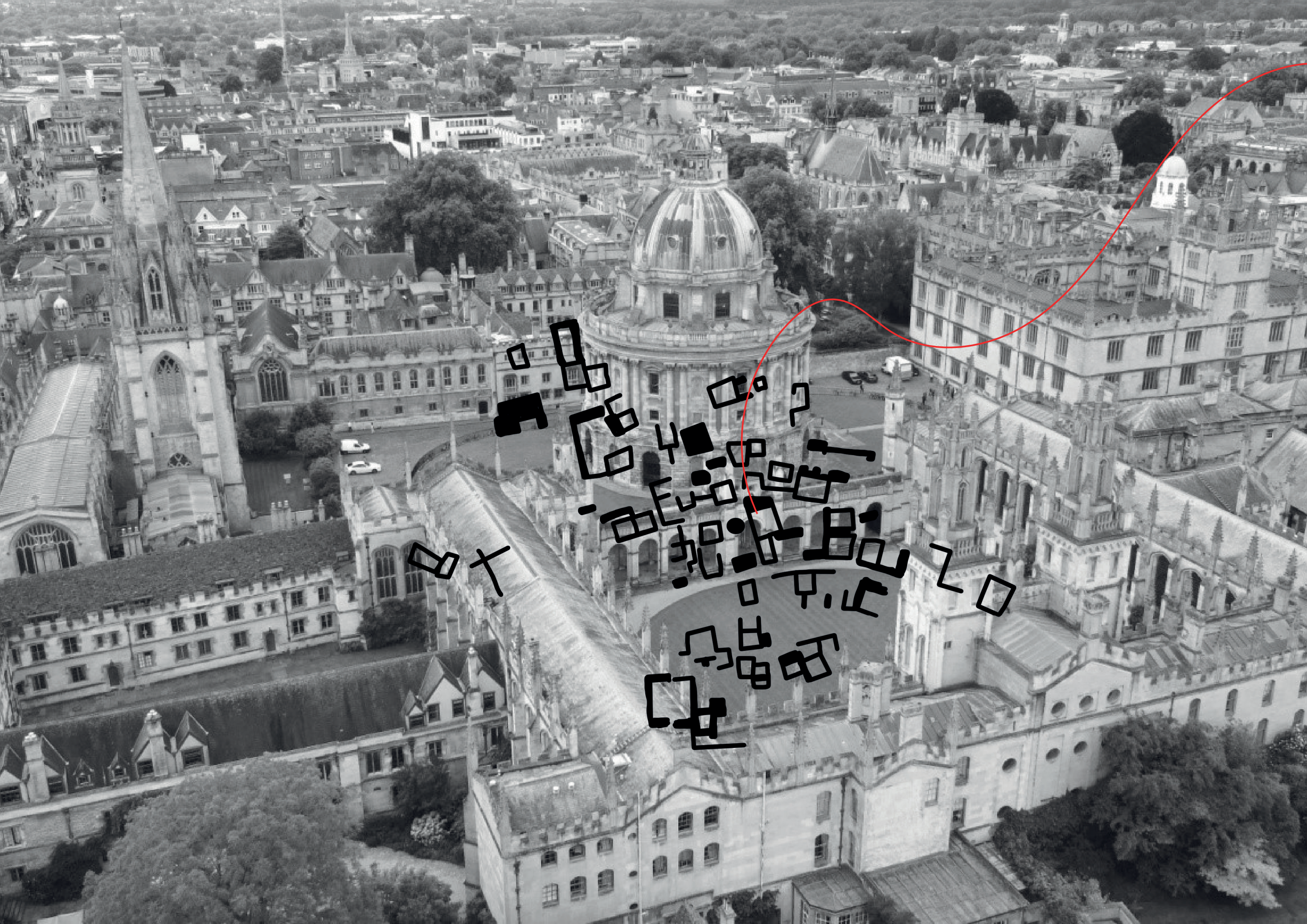
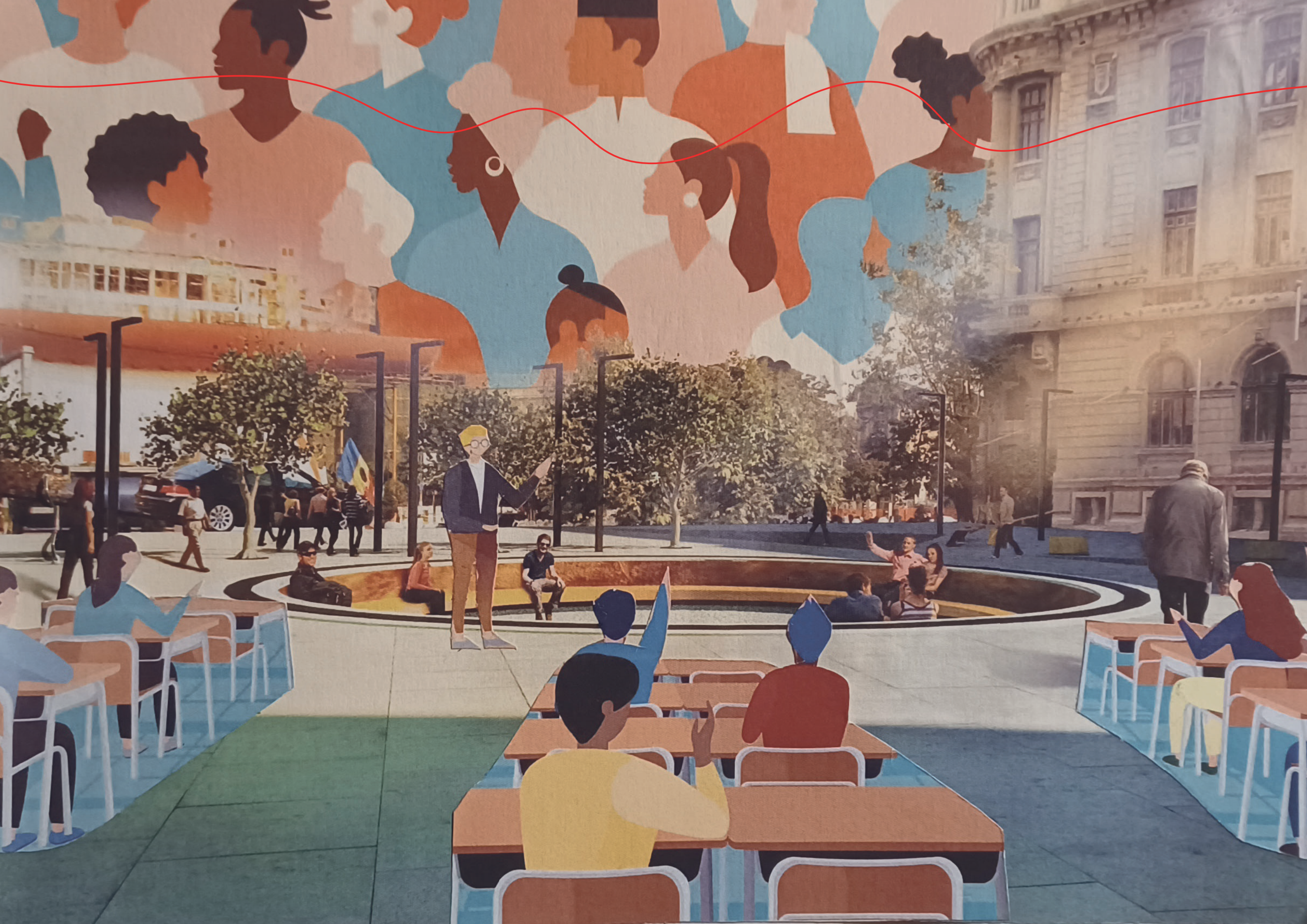




M.A.G.N.O.L.I.A.









OPTIMIZATION

IoT

CONSERVATION

DURABILITY

SUSTAINABILITY

70



A LOOK BACK

REFLECTIONS ON KEY CONCEPTS, THEMES, AMBITIONS COLLECTED SO FAR

URBAN INTEGRATION



PUBLICNESS



ACCESSIBILITY



OPTIMIZATION

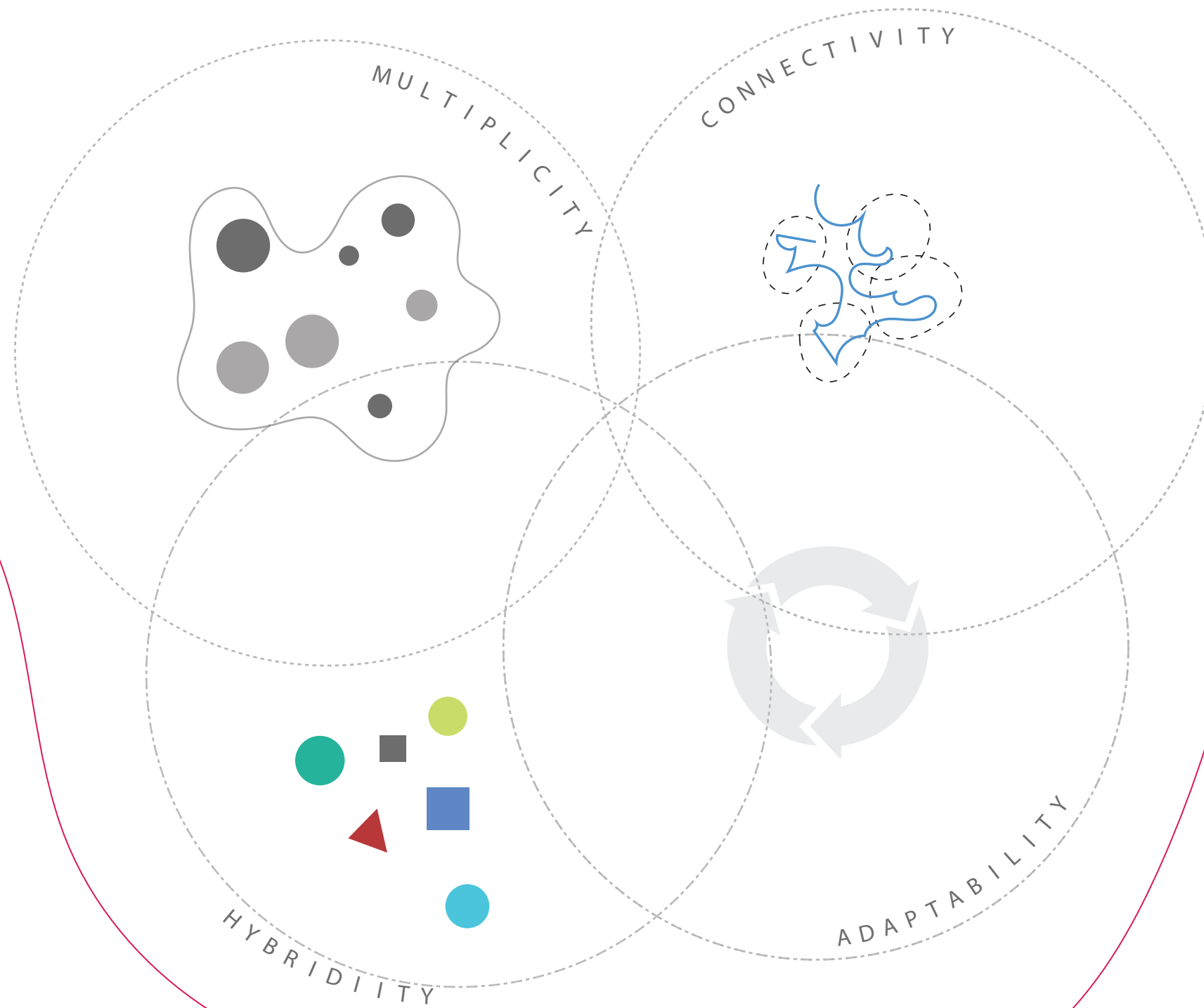


SUSTAINABILITY

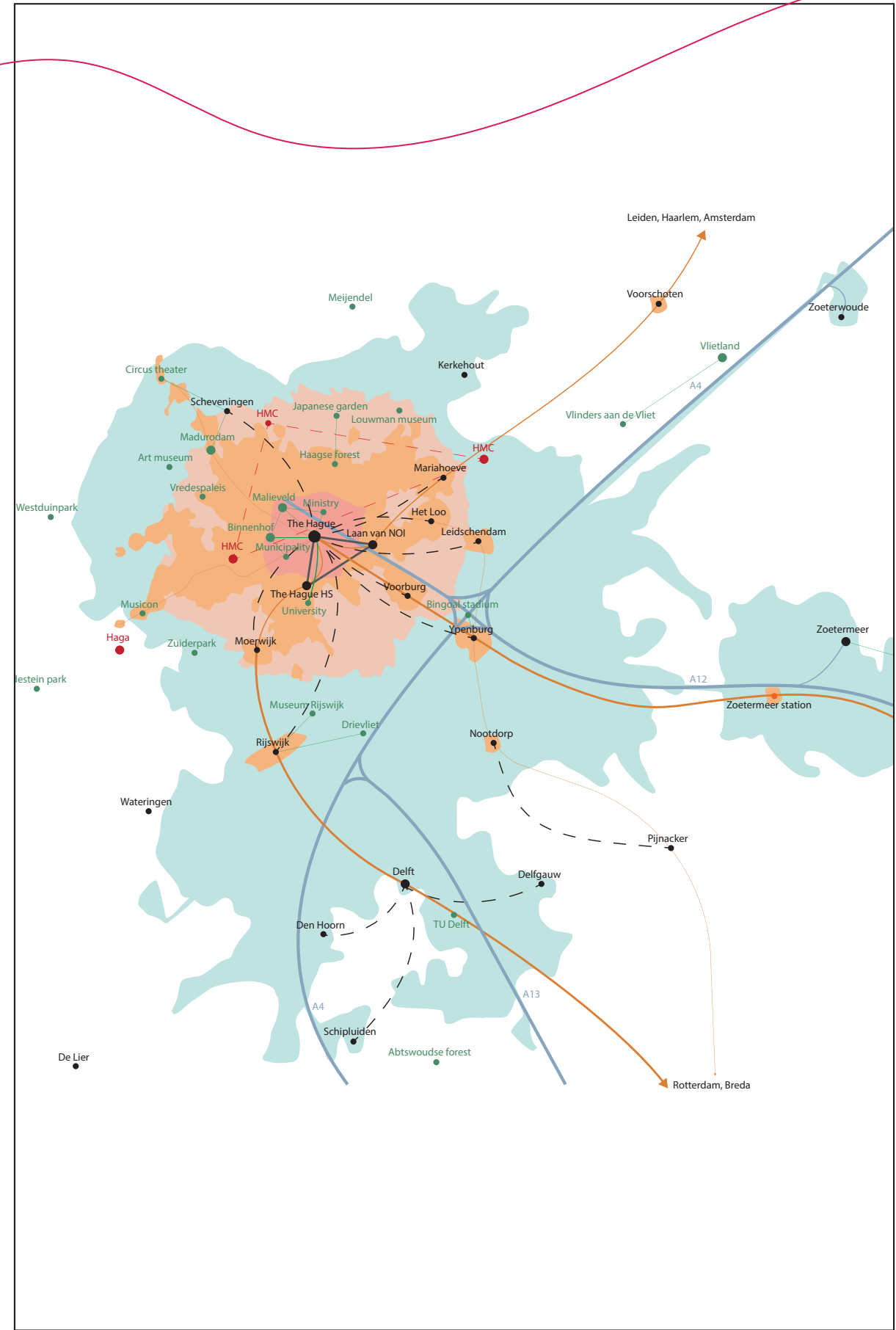
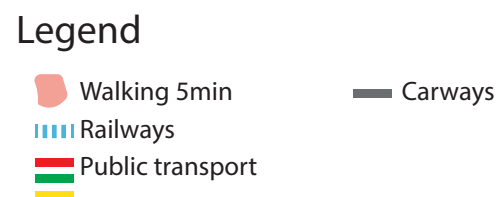
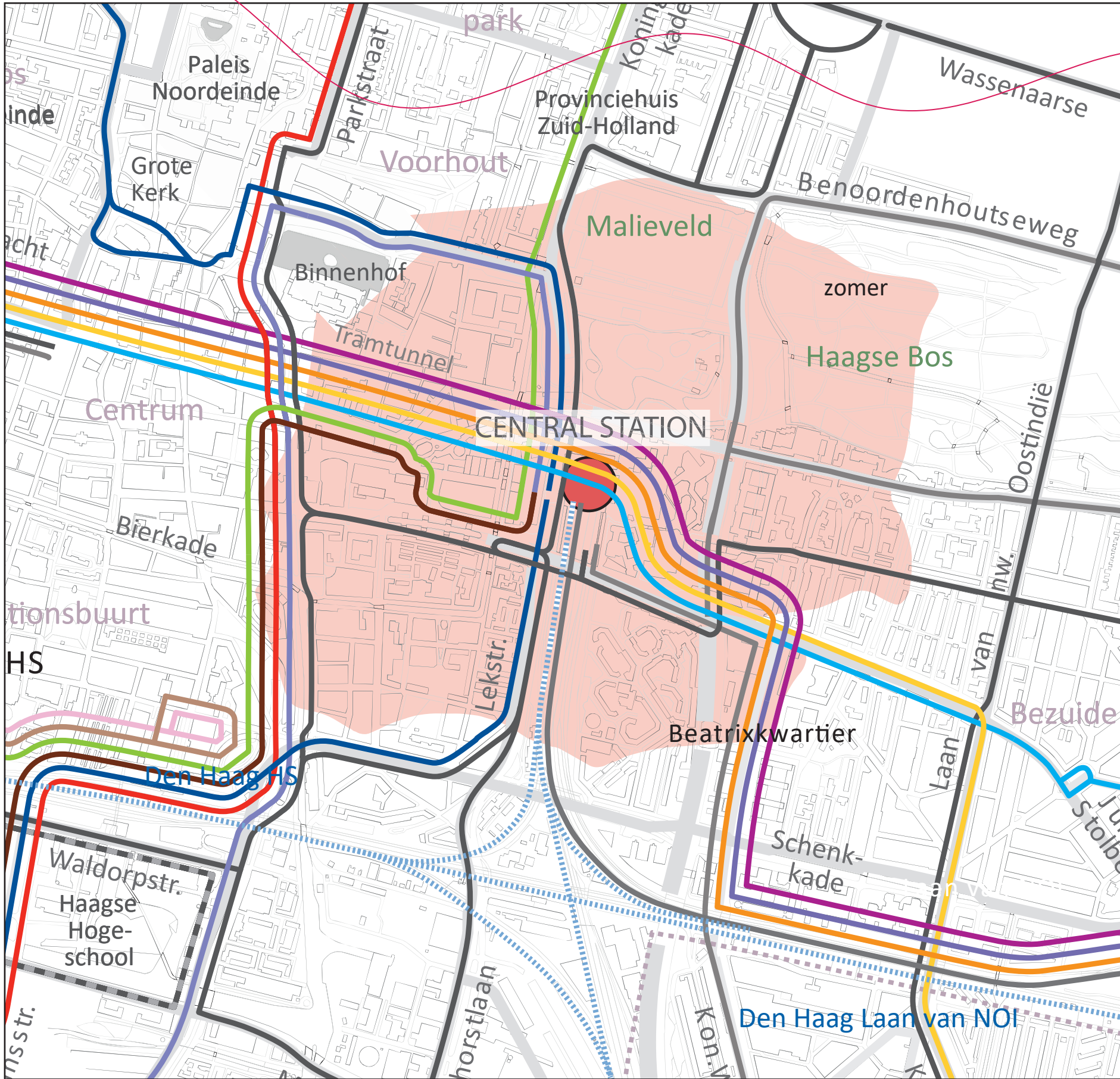


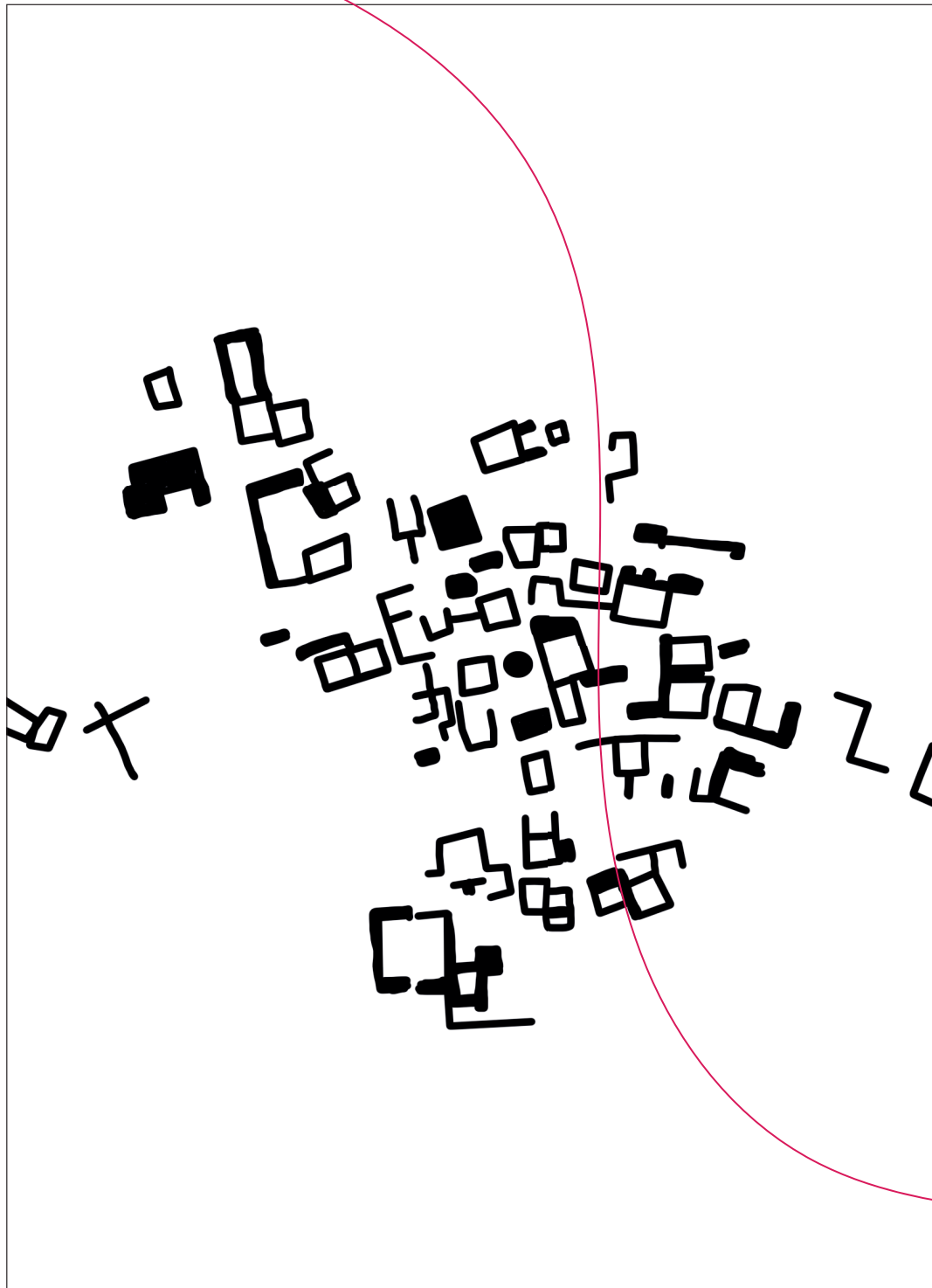
SYSTEMATIZATION OF REFLECTIONS:
"WHAT IS THE AMBITION?"

URBAN (AND BEYOND) INTEGRATION OF AN ACCESSIBLE CAMPUS FOR THE PUBLIC

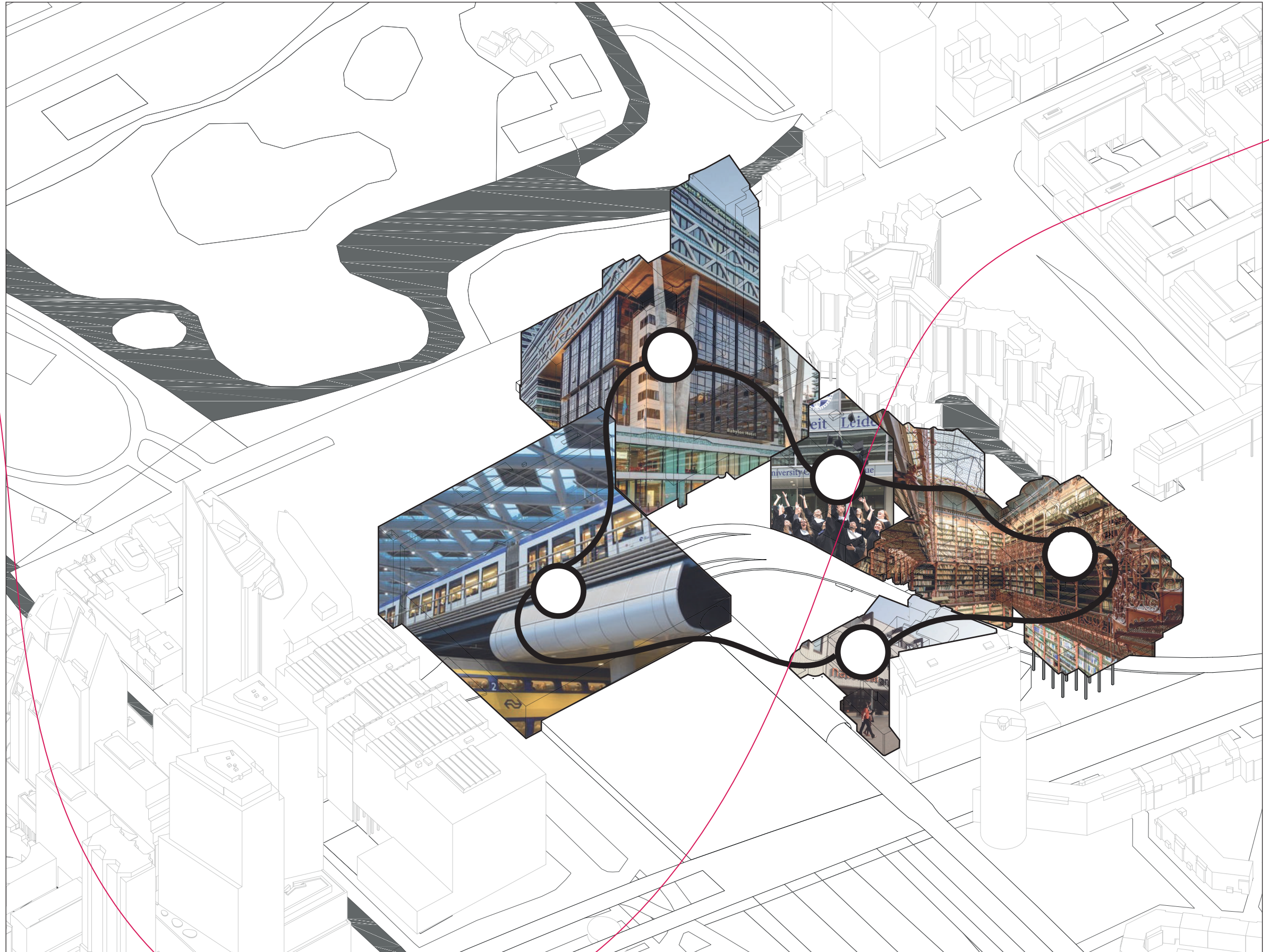


"FIFTH GENERATION CAMPUS" - START OF REFELCTION



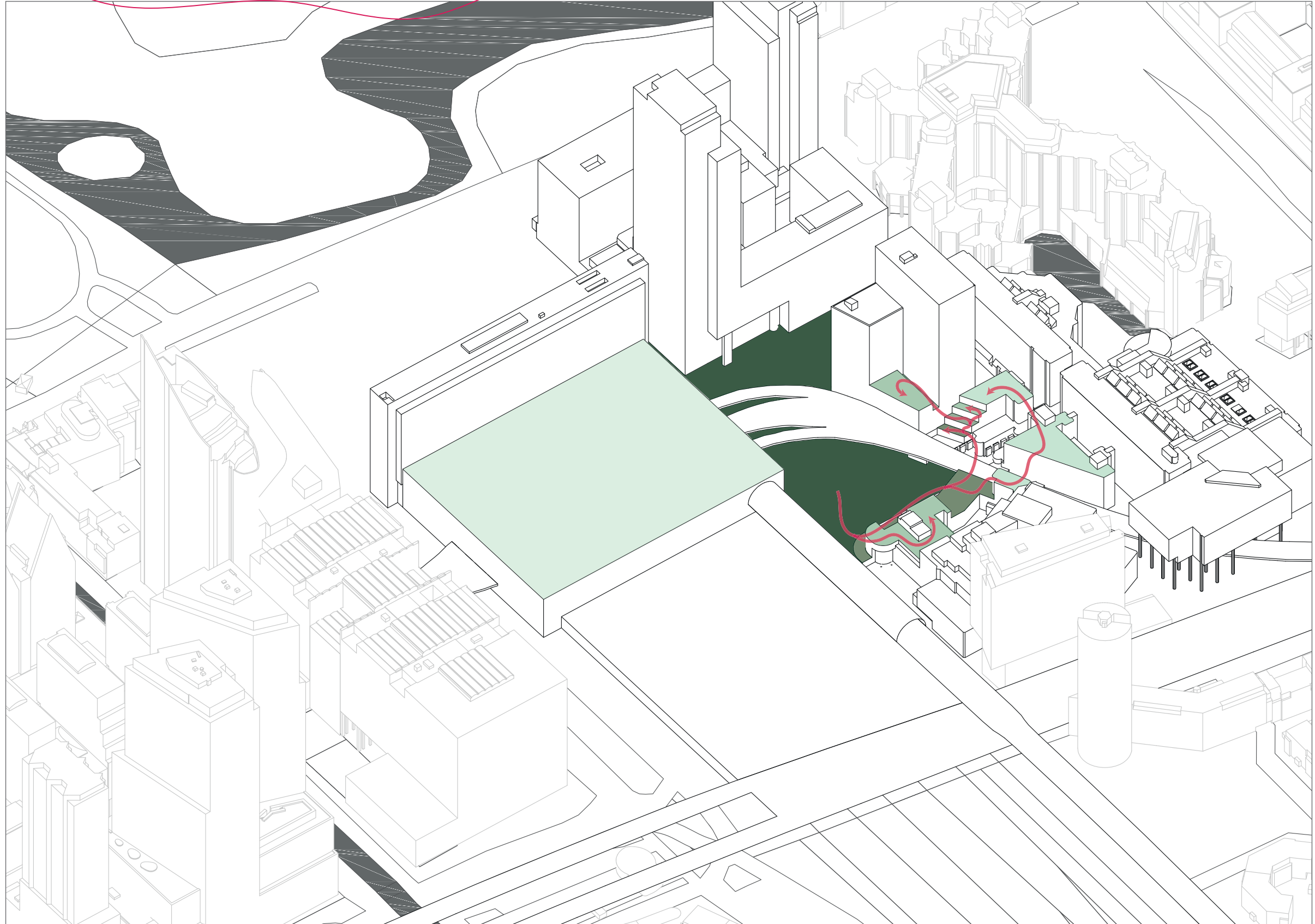


TO FOSTER (EXISTING) URBAN INTENSITIES

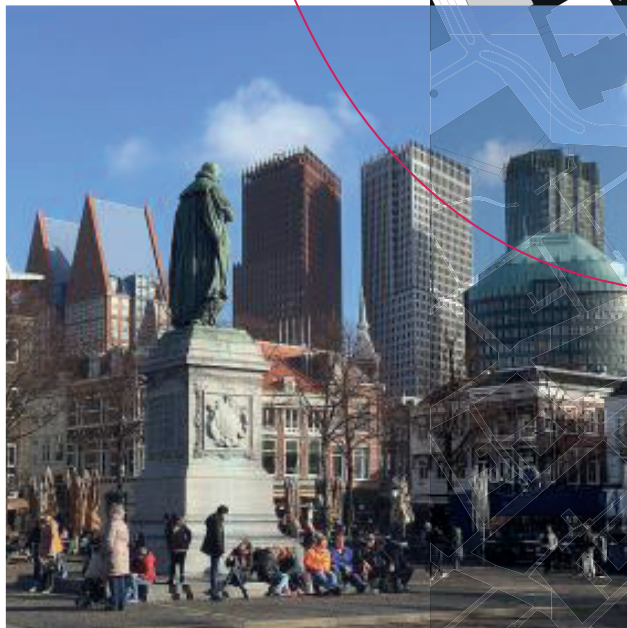
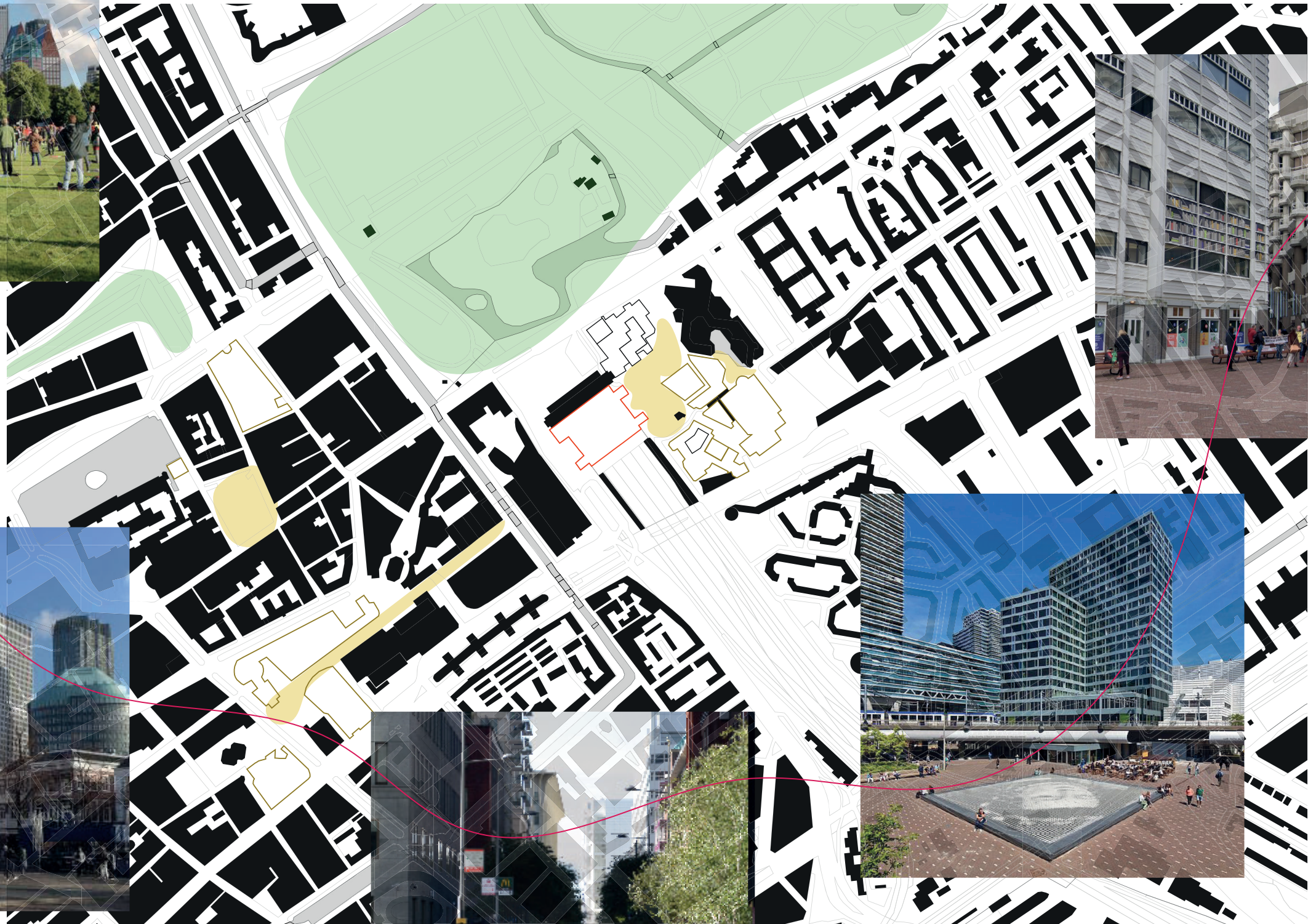


MULTIPLICITY AT THE URBAN LEVEL

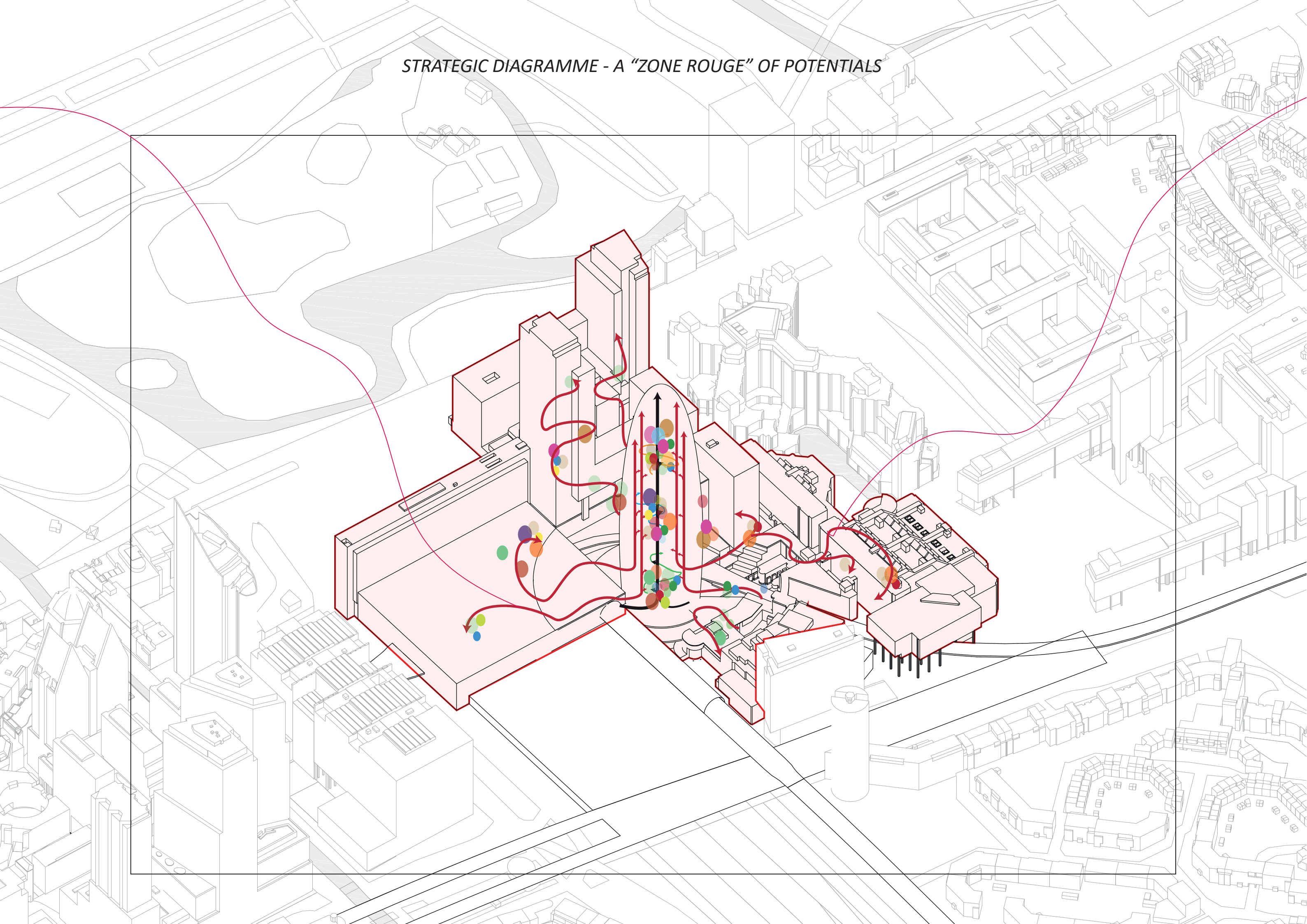
RELATIONSHIP WITH EXISTING BUILDING STOCK



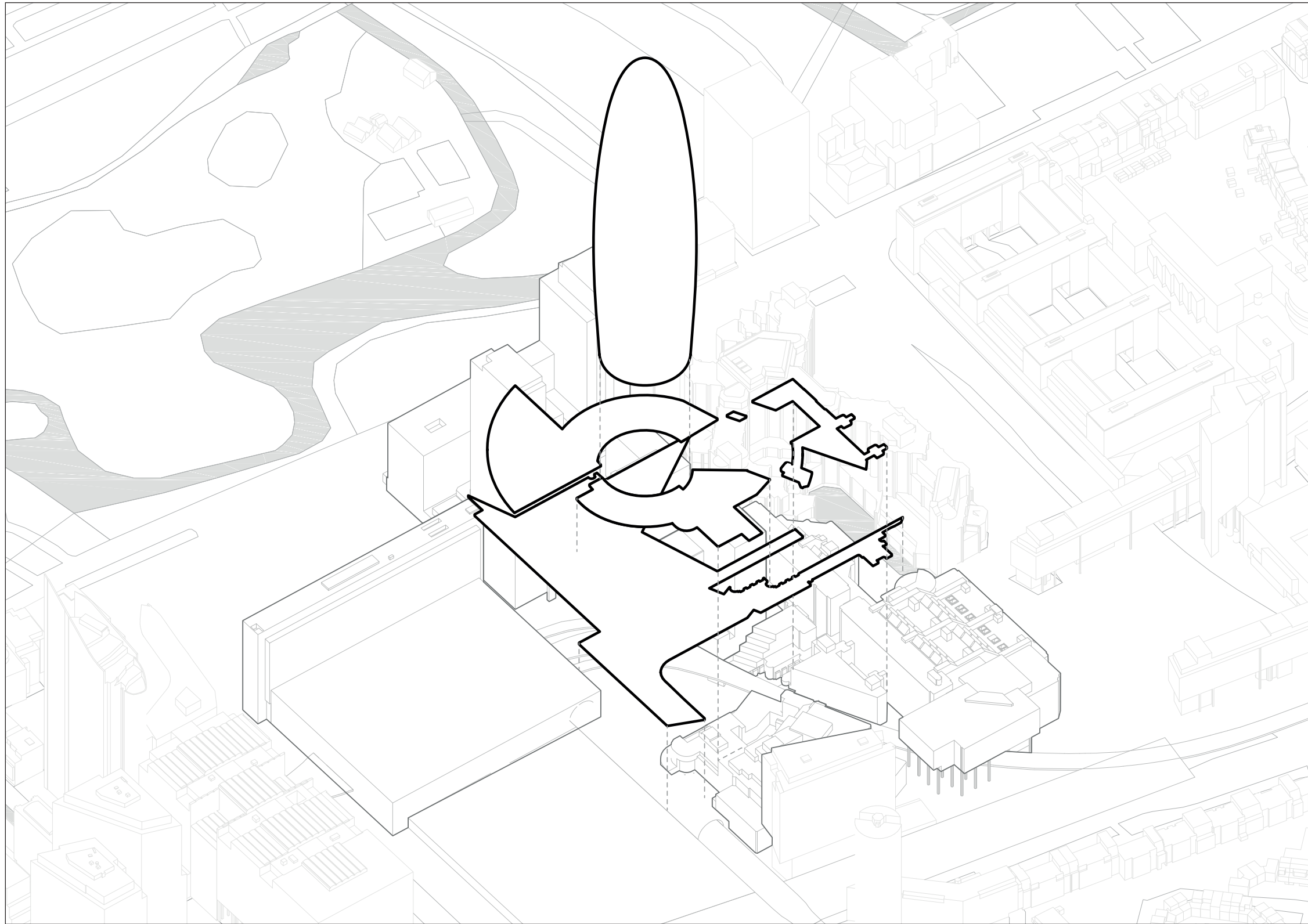
PUBLIC SPACE (?) IN THE SURROUNDINGS



STRATEGIC DIAGRAMME - A "ZONE ROUGE" OF POTENTIALS



A FIRST STRUCTURING OF "DIMENSIONS"



"SQUEEZING IN"





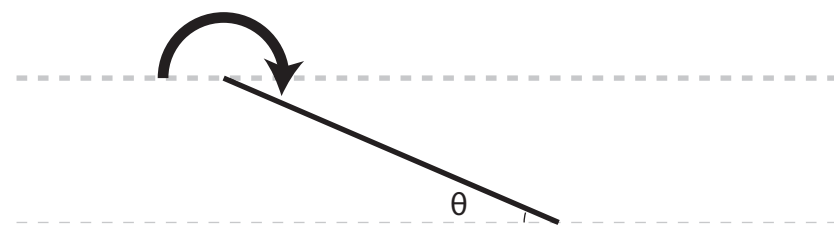
“LANDSCAPING”

A "FIFTH FACADE"



A MULTIPLICATION OF THEMES

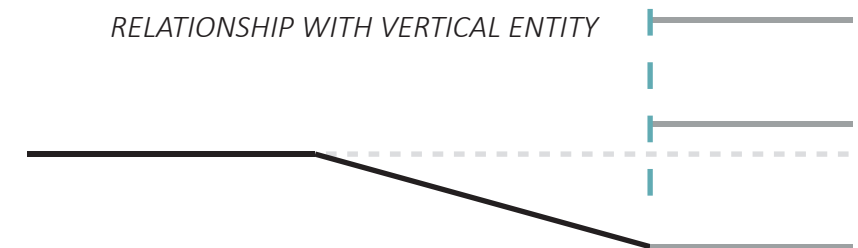
TILT OF TERRAIN



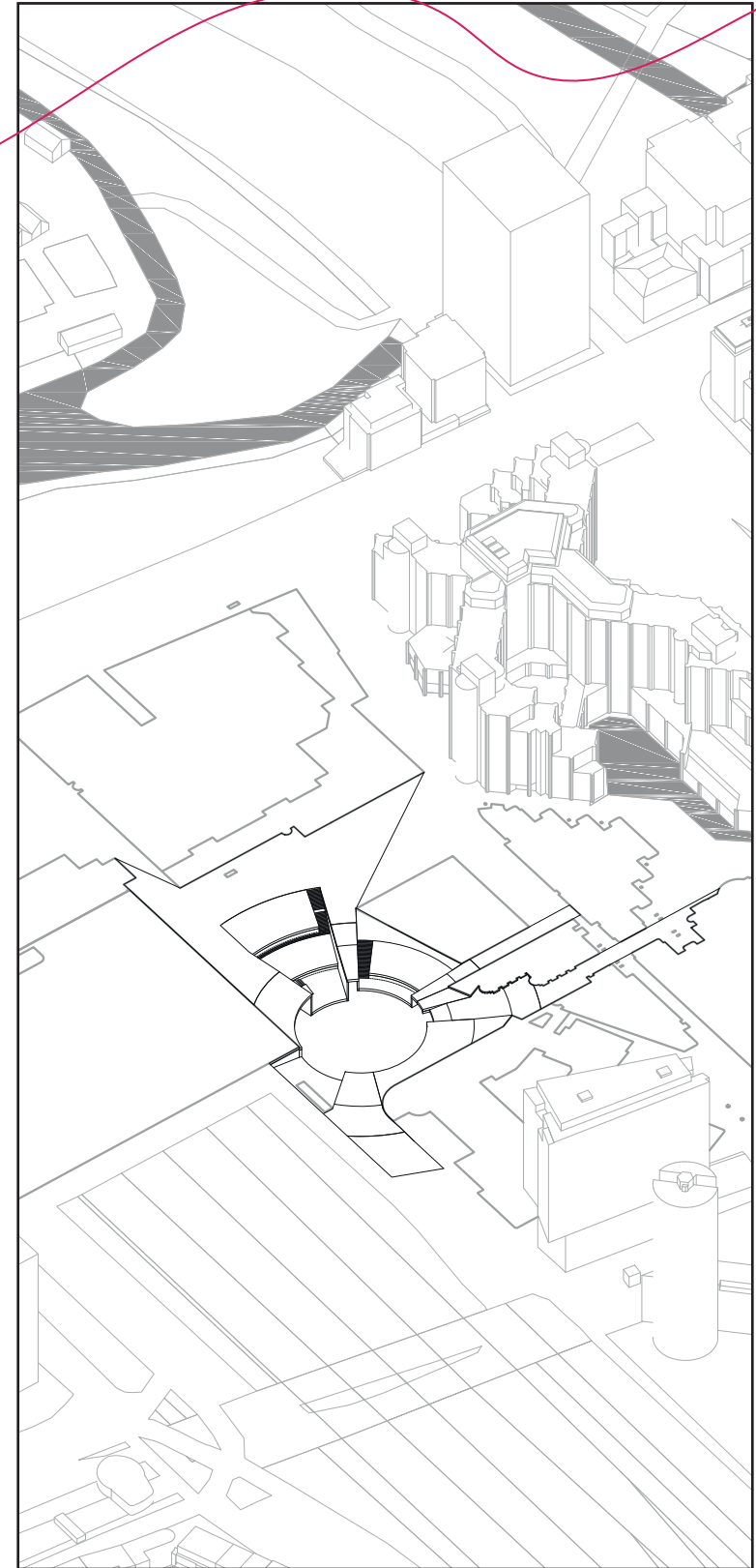
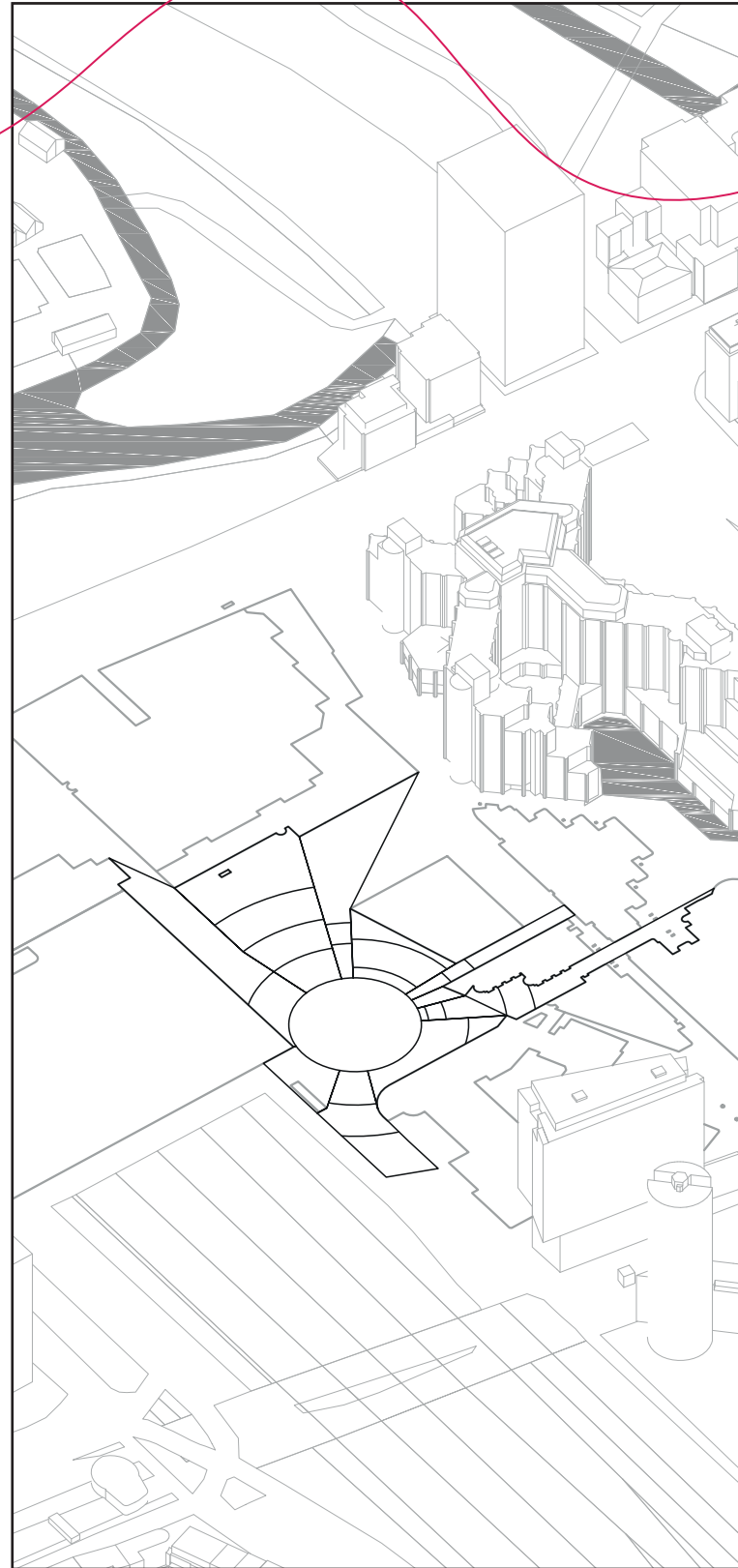
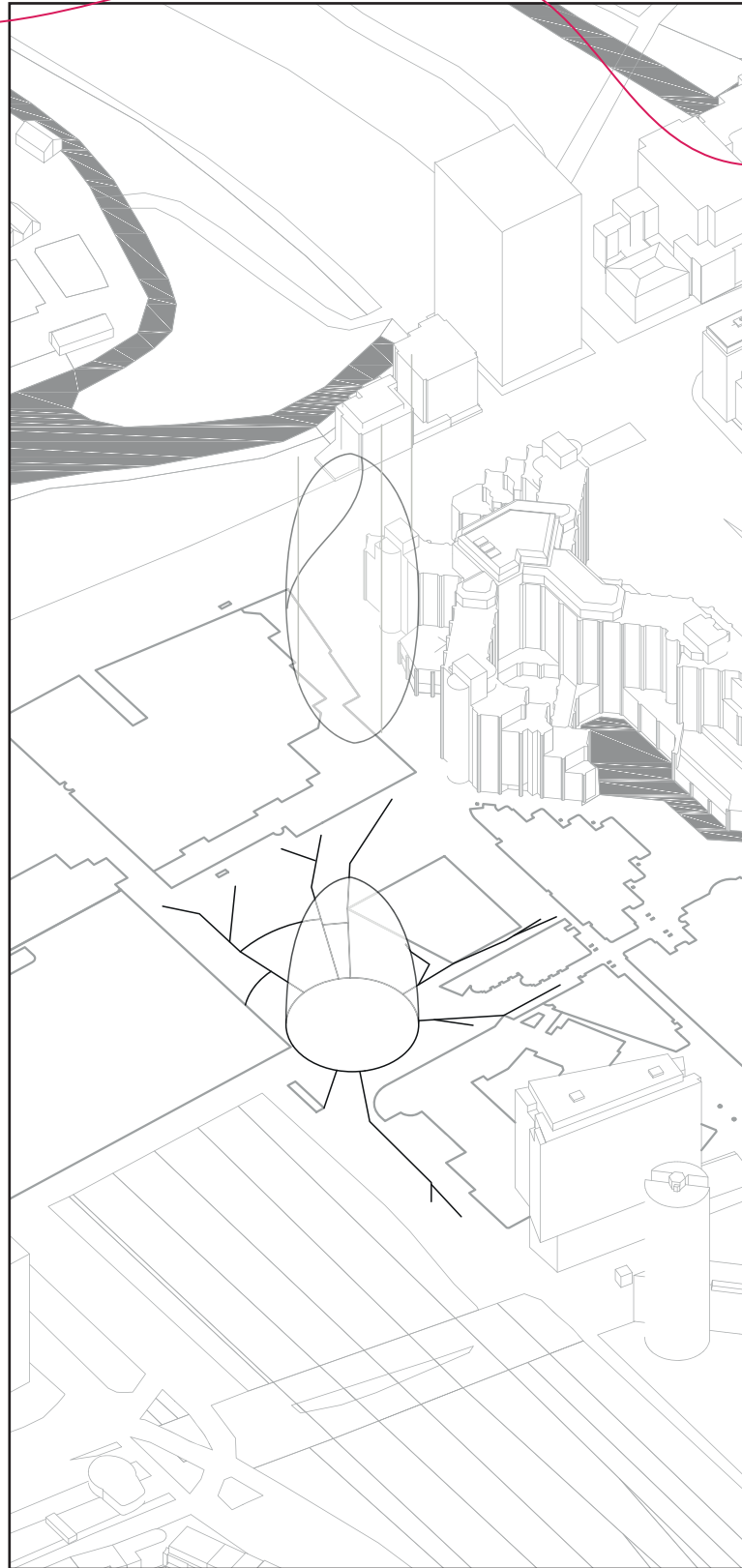
EXTENSION BY SECTIONING



RELATIONSHIP WITH VERTICAL ENTITY



A SOLID NESTLING INTO THE SITE

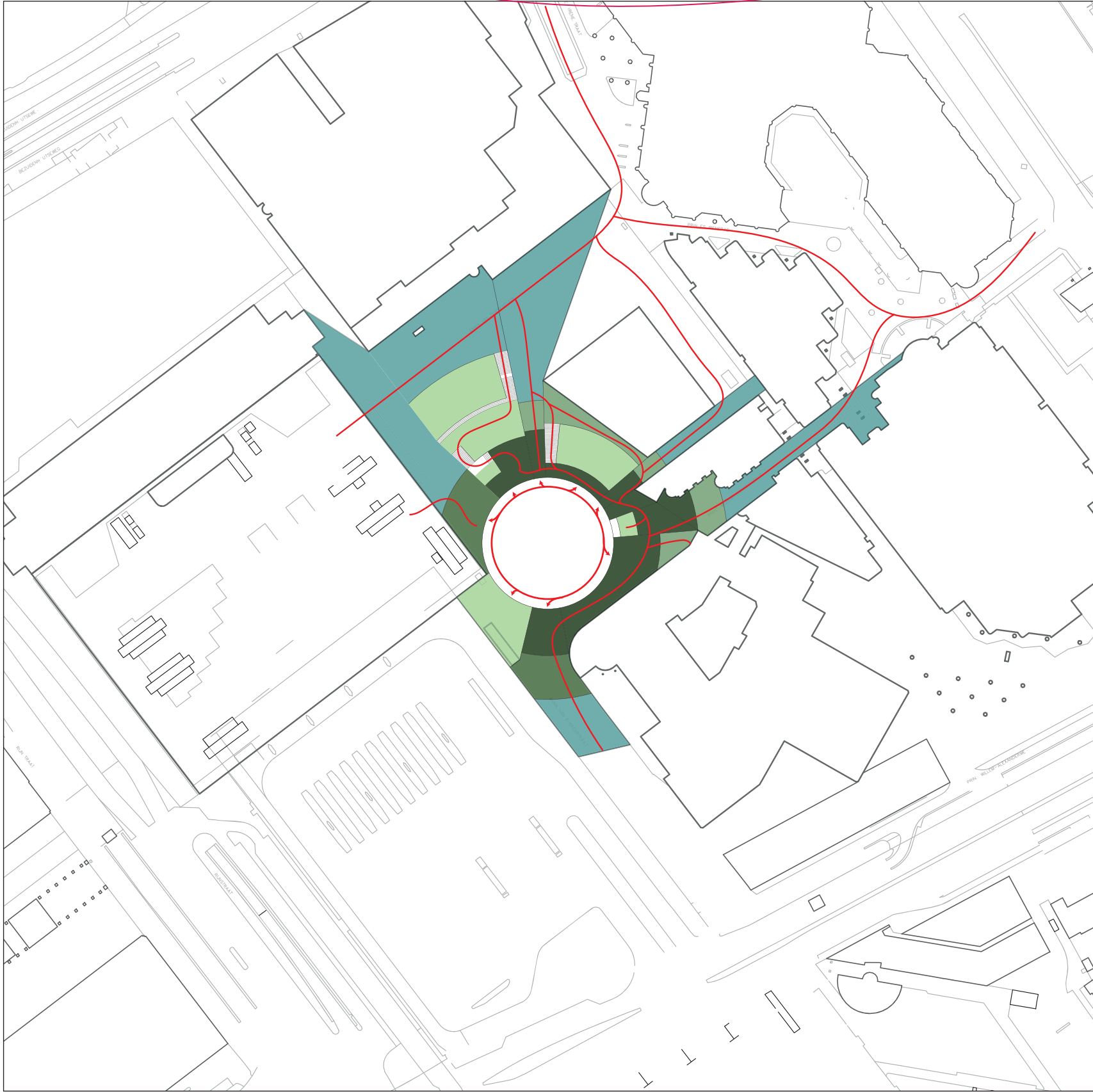


"SITE AWARENESS"

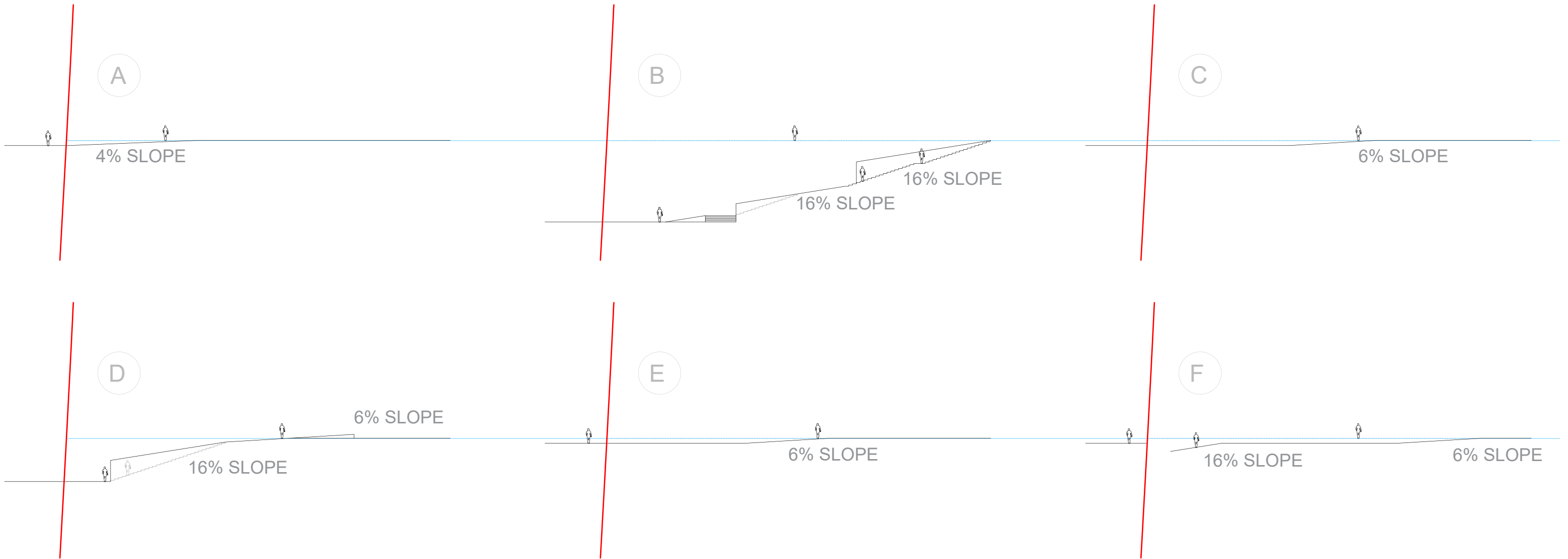


ACCESSIBILITY

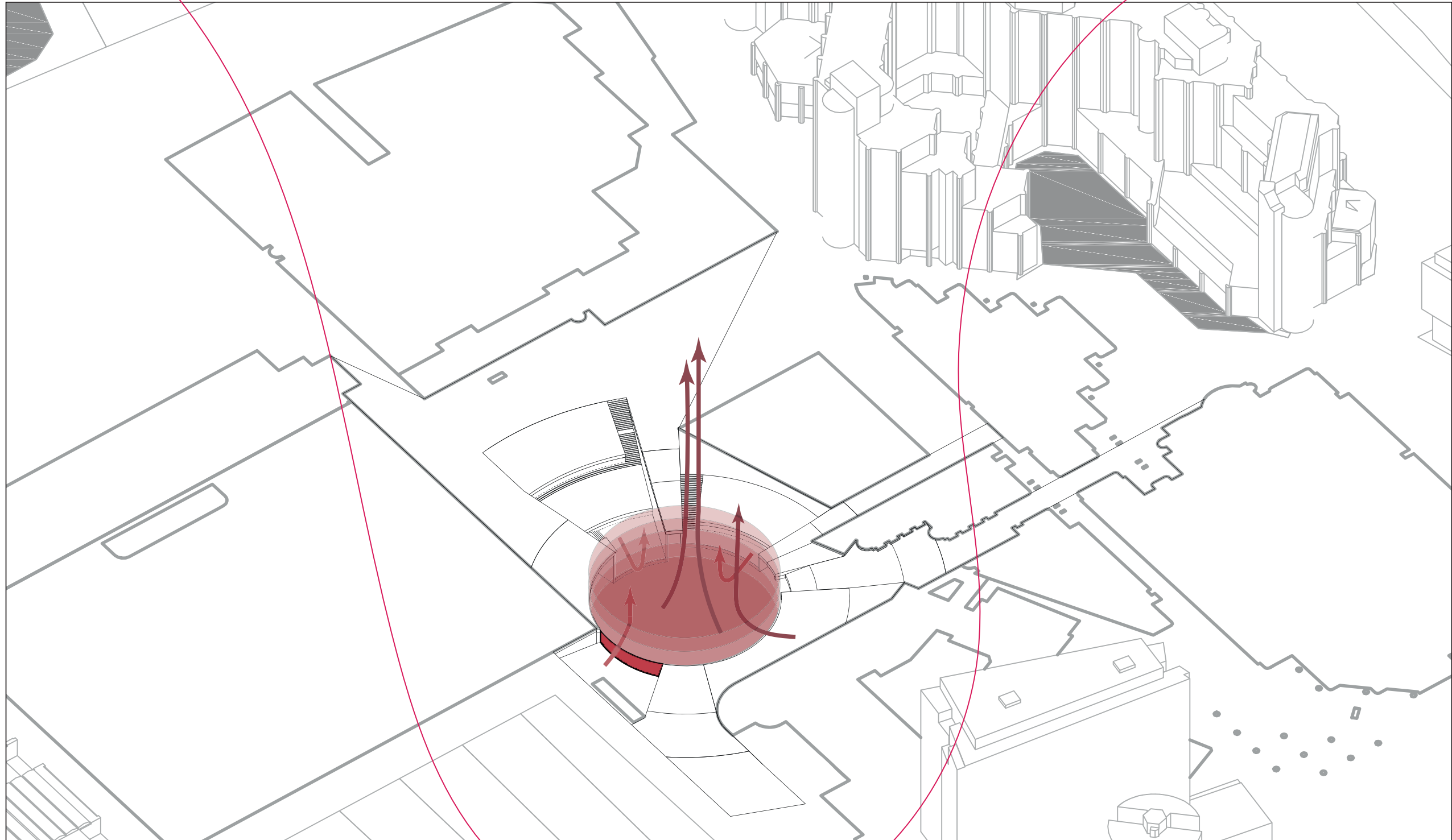
-  FLOWS DIRECTIONS
-  WALKING LEVEL-0°
-  16° ANGLE
-  6° ANGLE
-  4° ANGLE
-  ENTRANCE LEVEL: -0.60m

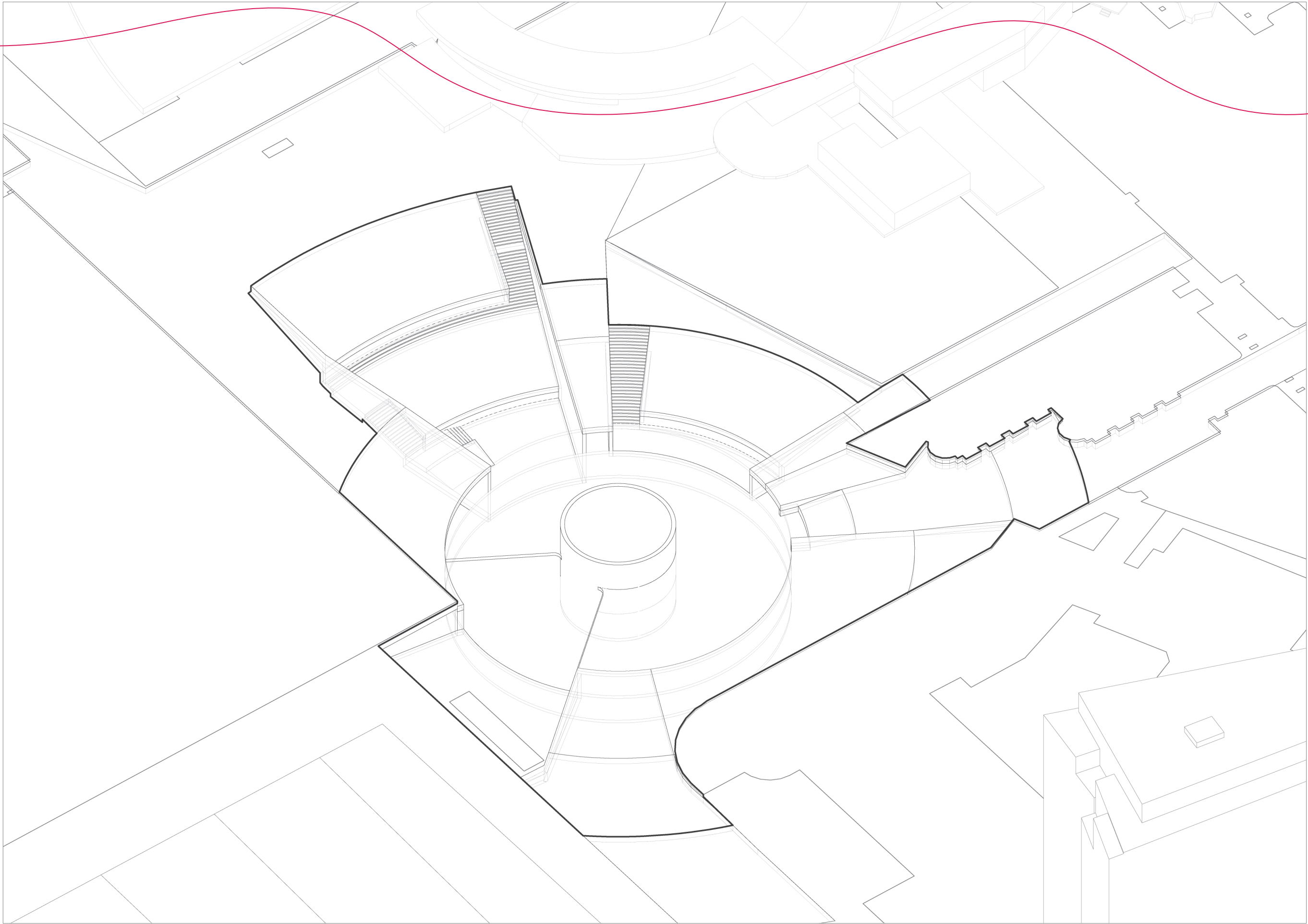


THE MULTIPLE RELATIONSHIPS



MULTIPLE ACCESSES AT DIFFERENT LEVELS - "GOING DOWN TO GO UP"

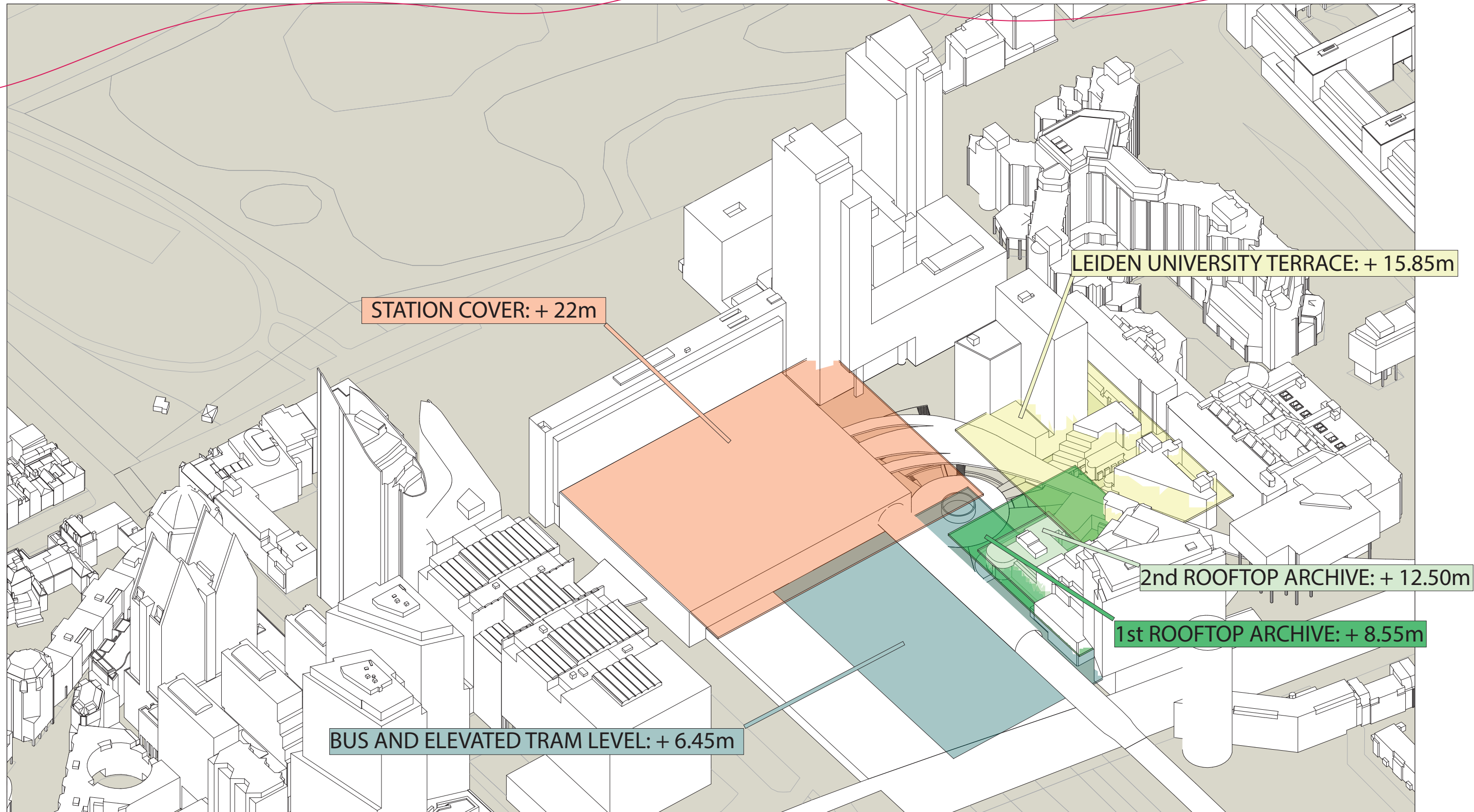




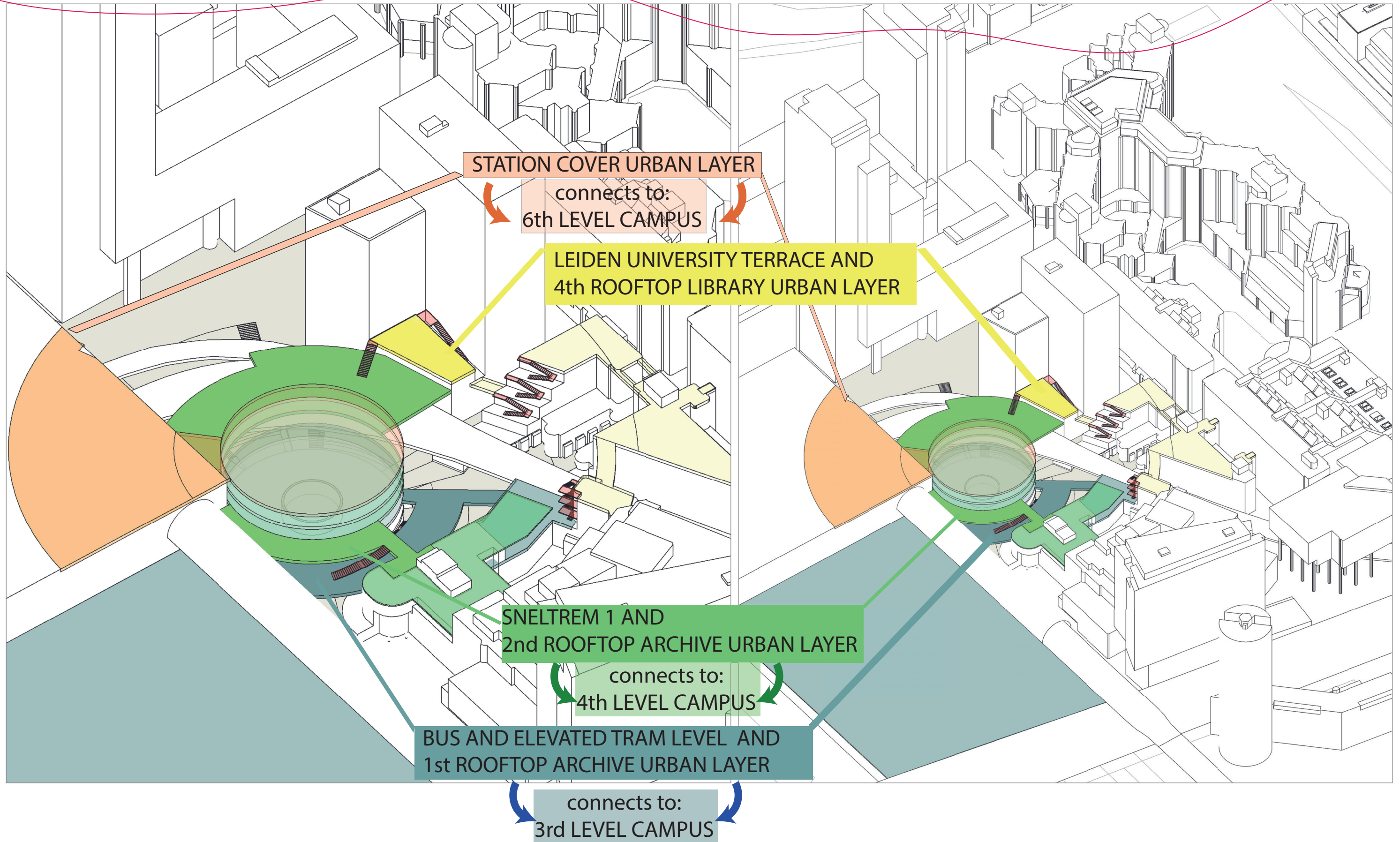


“FLYING OVER”

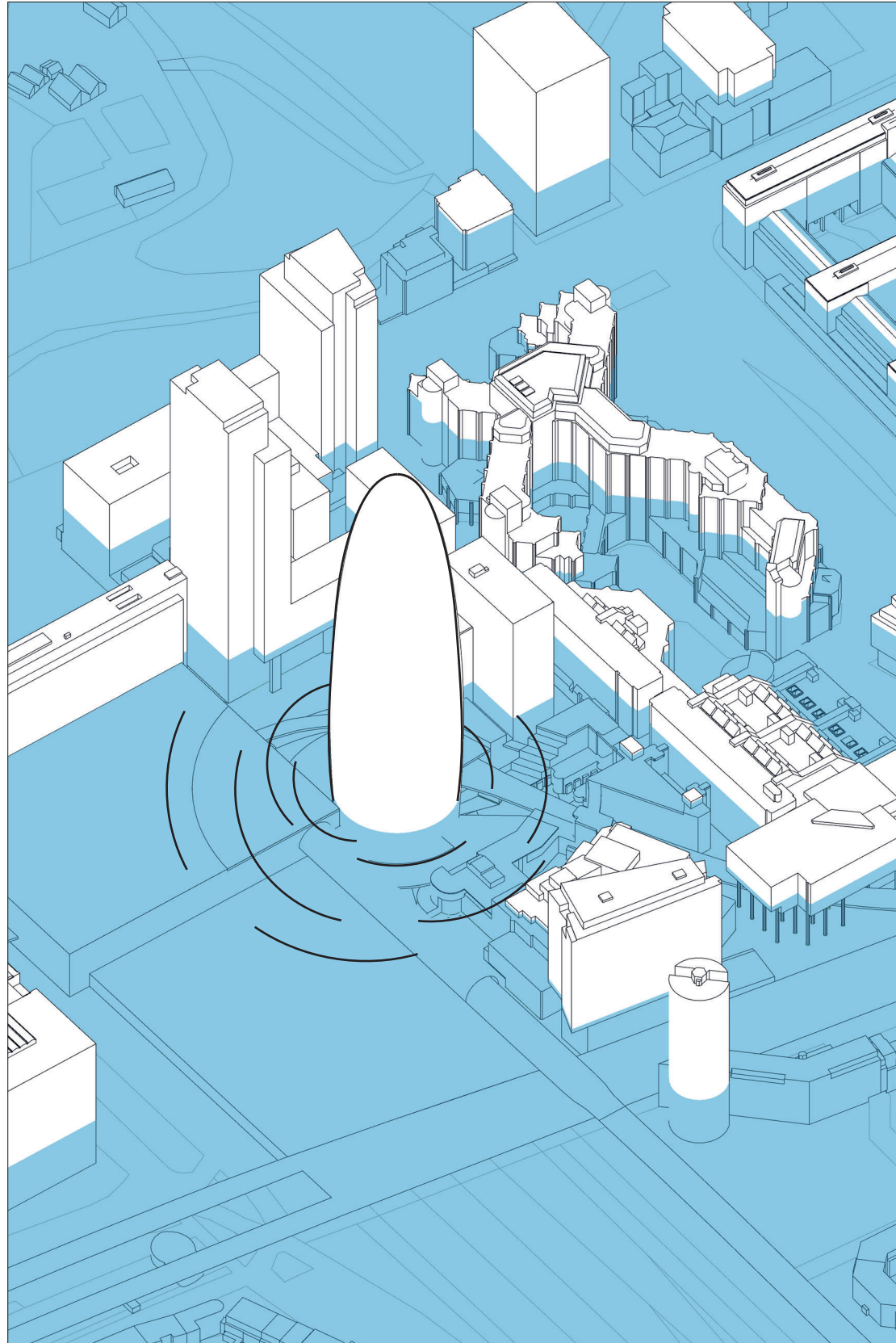
THE MULTIPLE URBAN LAYERS



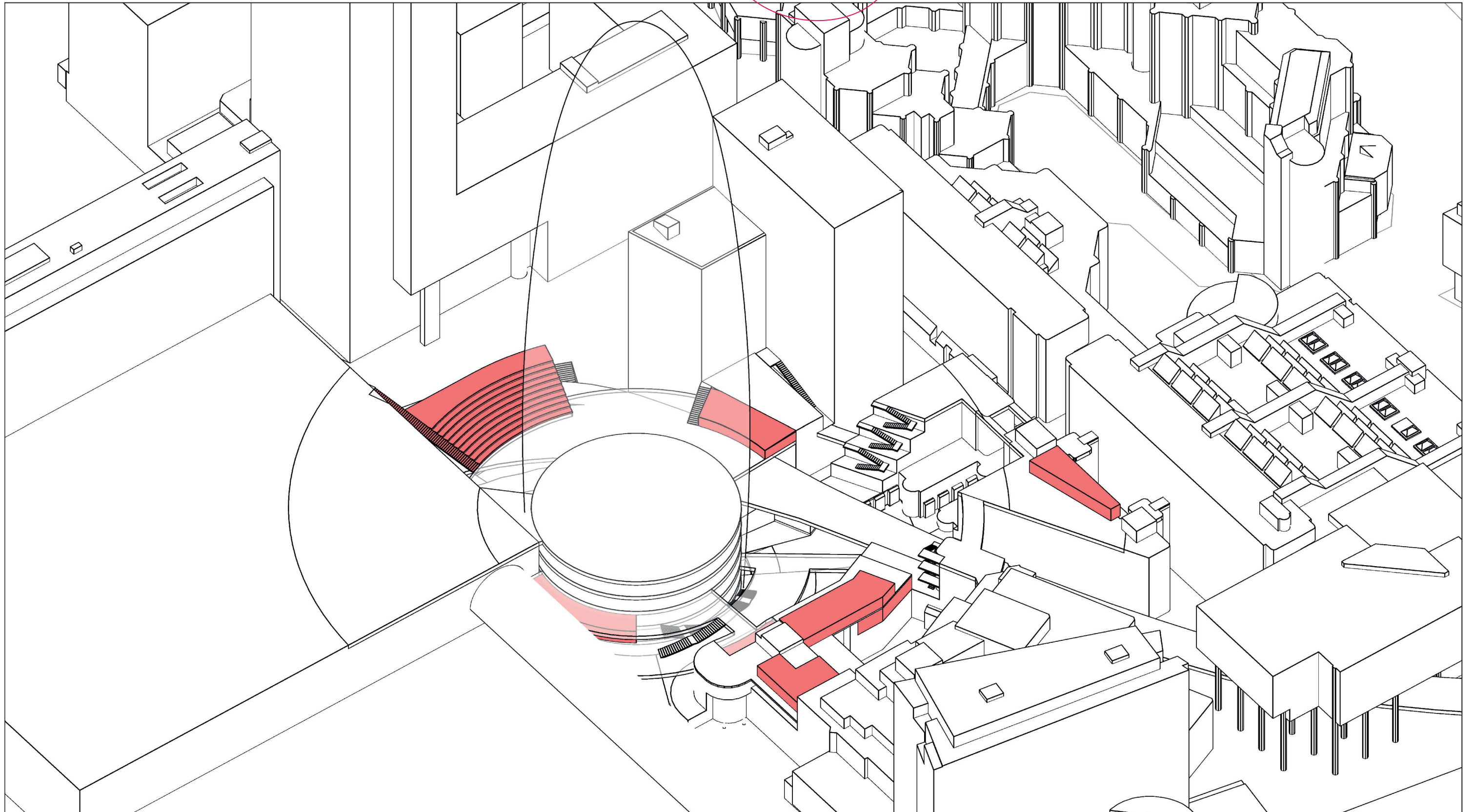
MATCHING

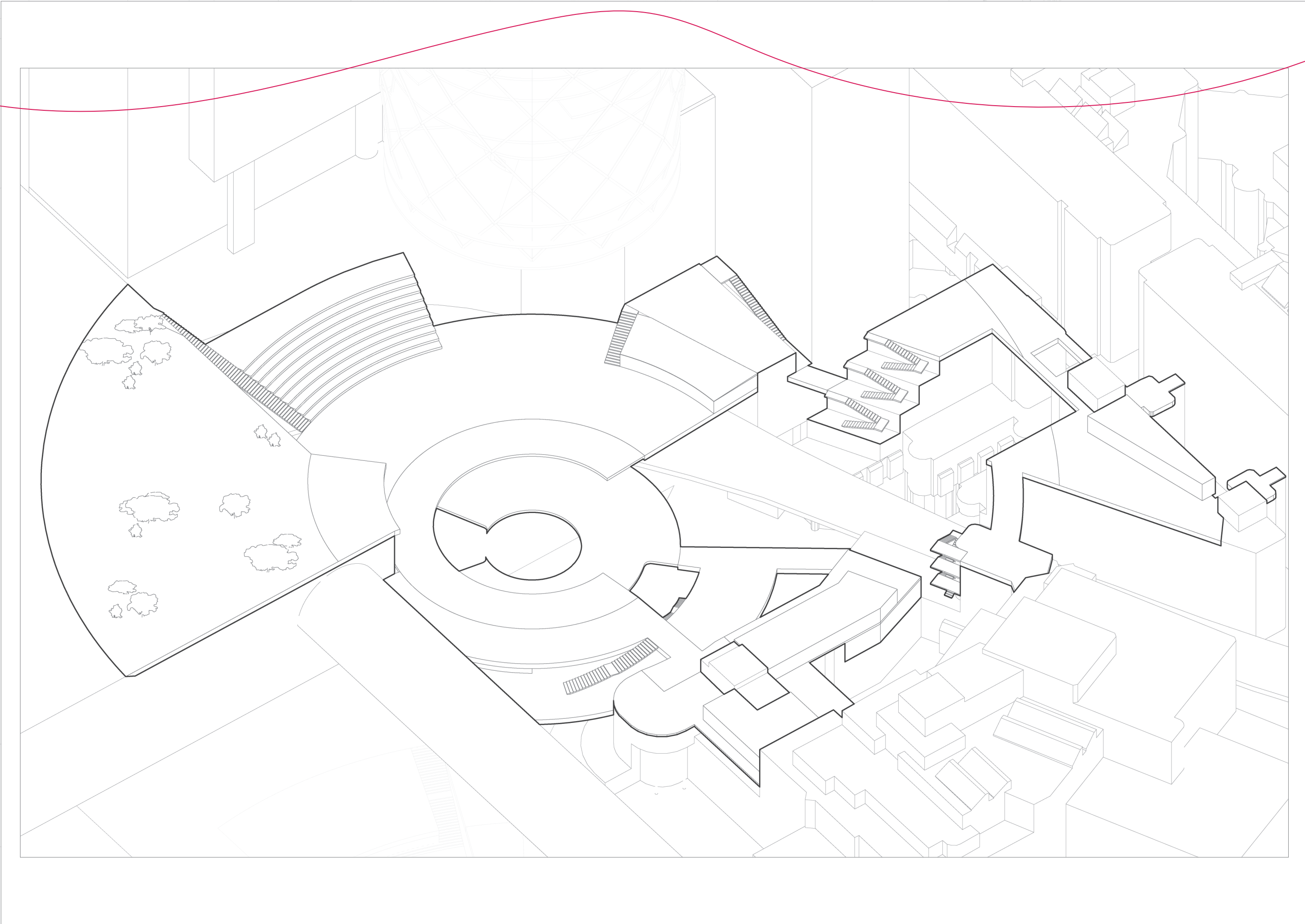


A PRINCIPLE OF "REASONANCE"



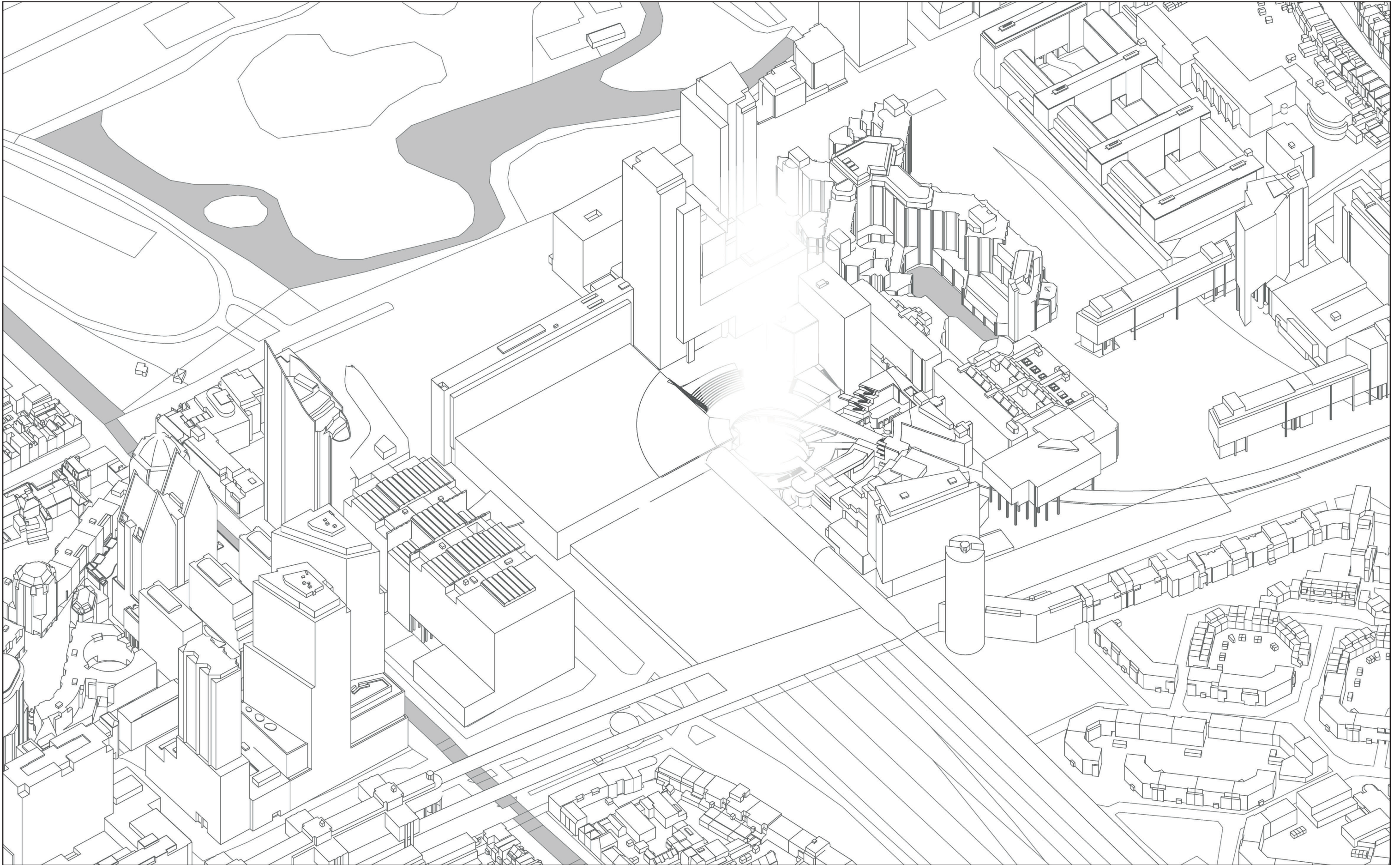
THE THEATRICAL NATURE OF THE ACT



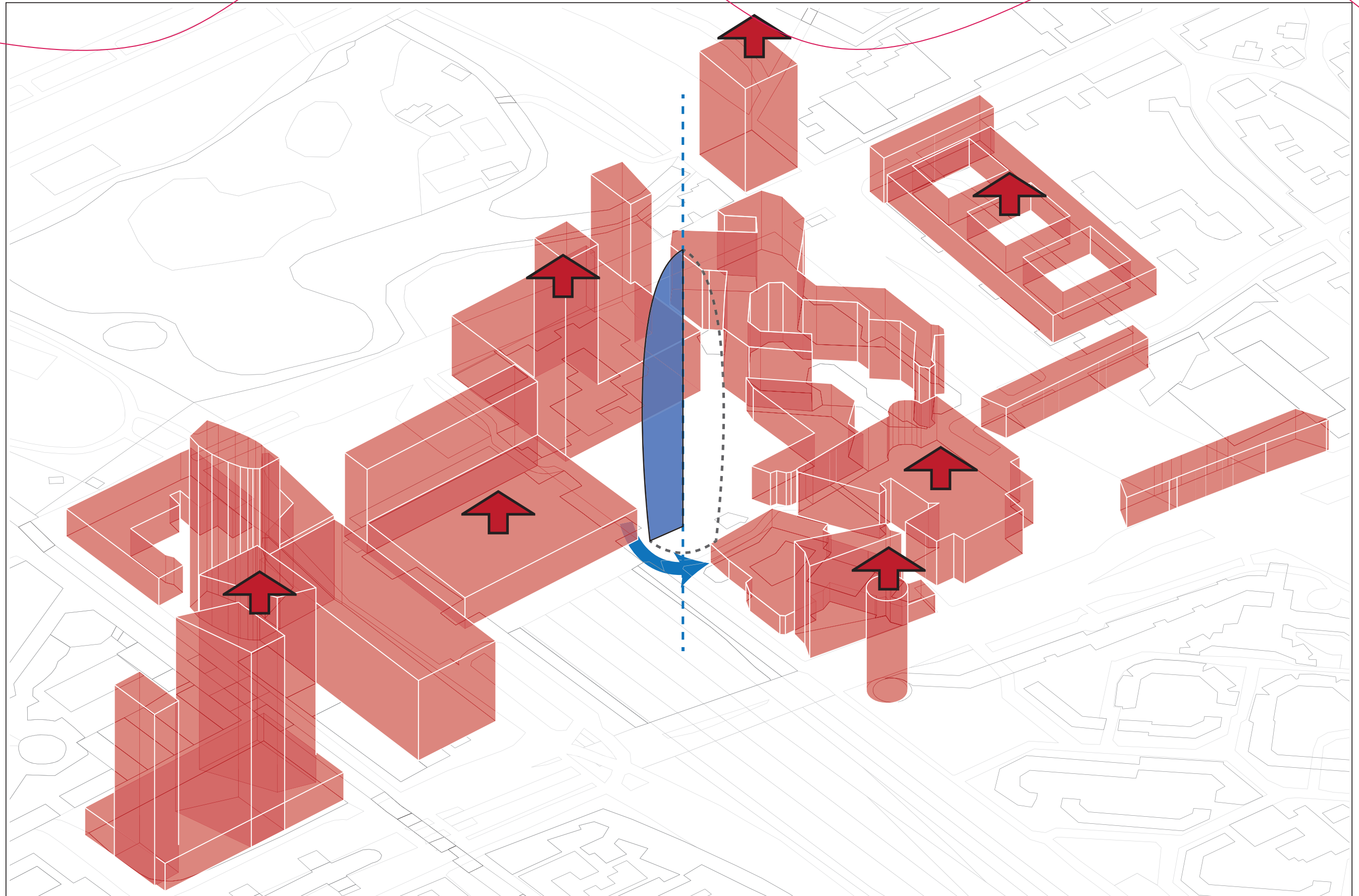




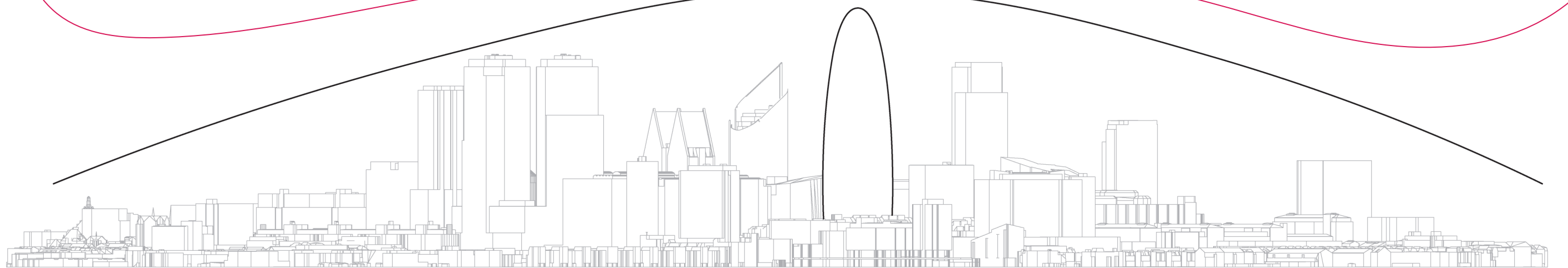
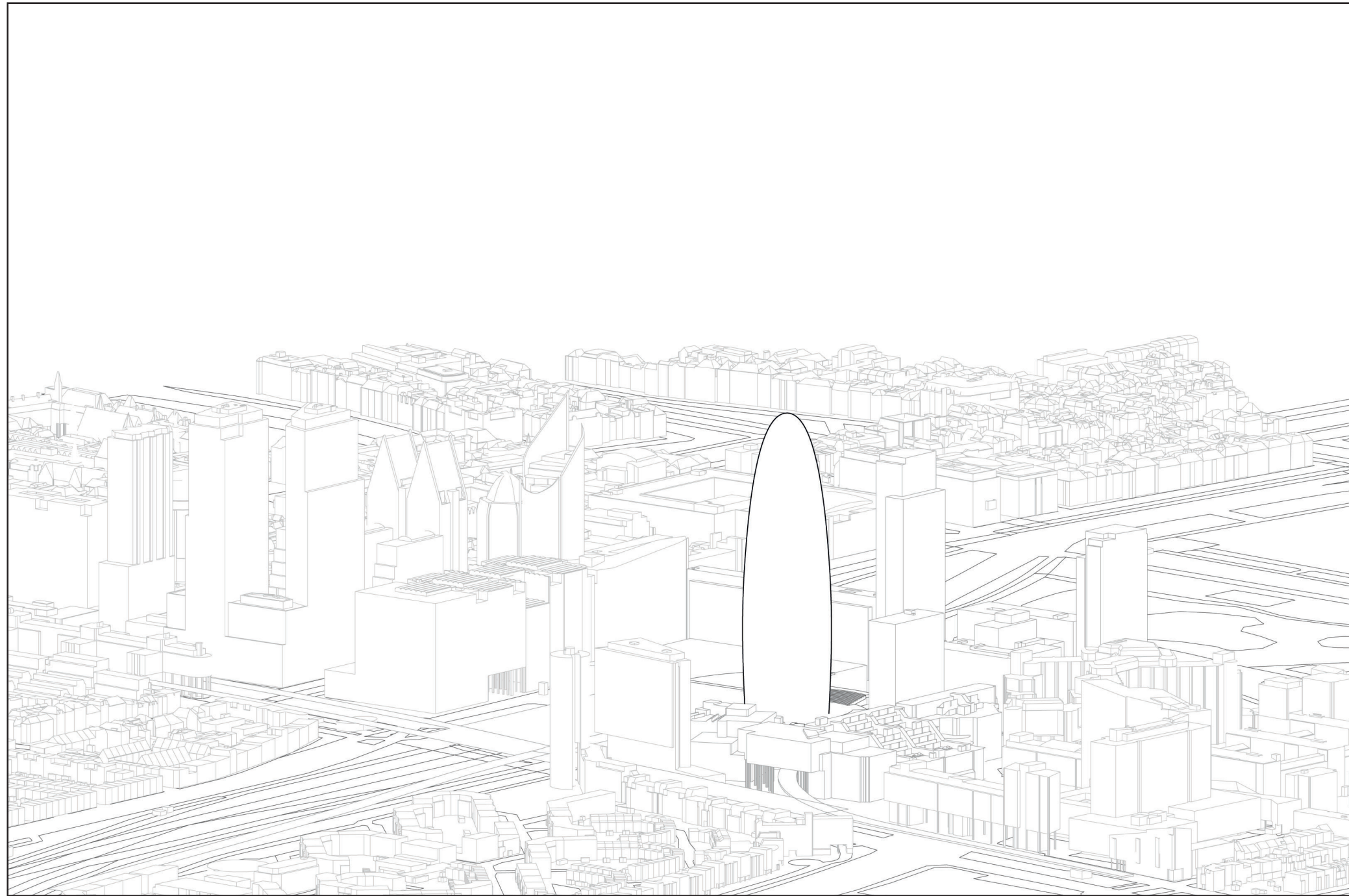
“RISING UP”



TECTONINCS



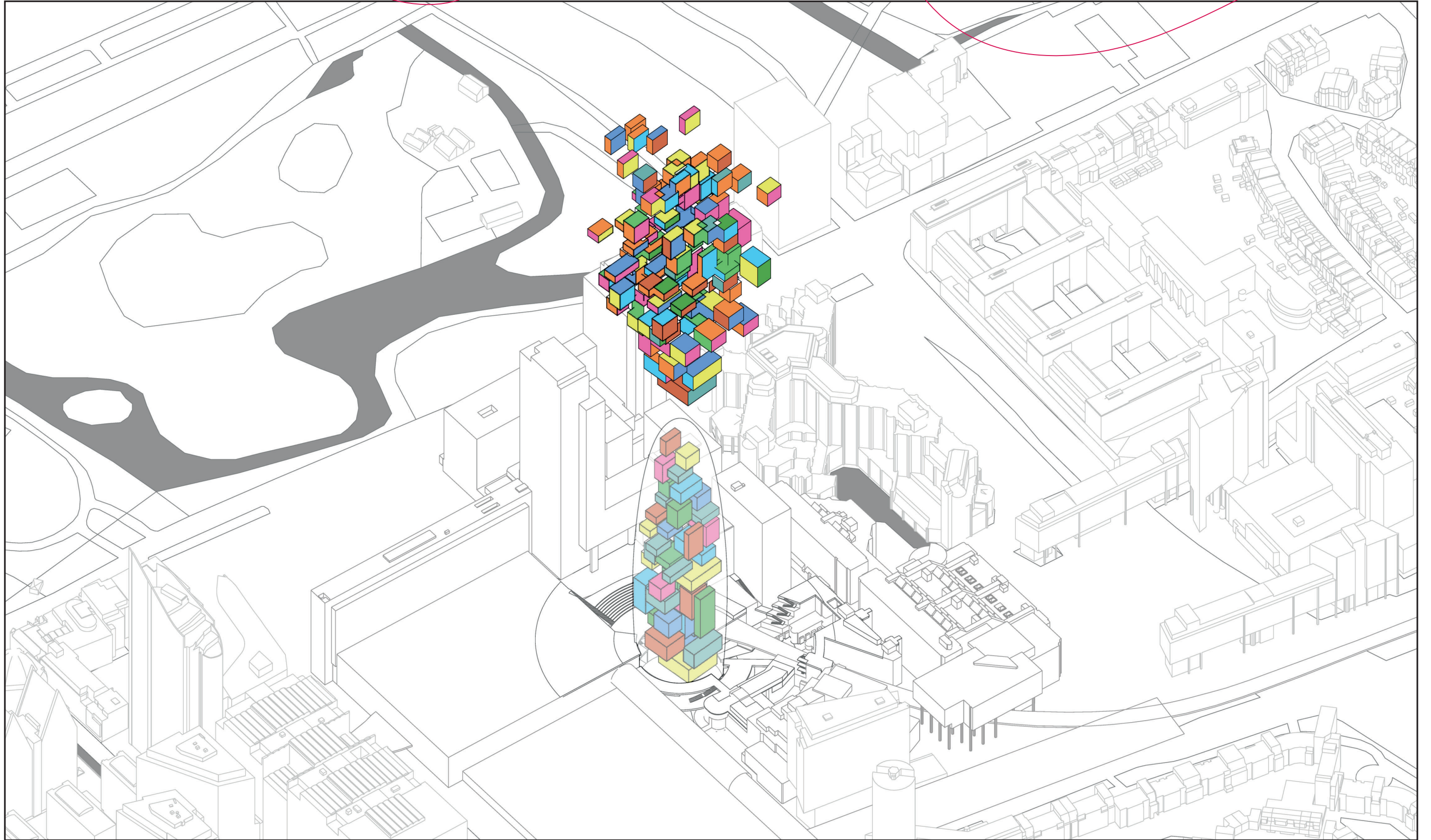
SCALE

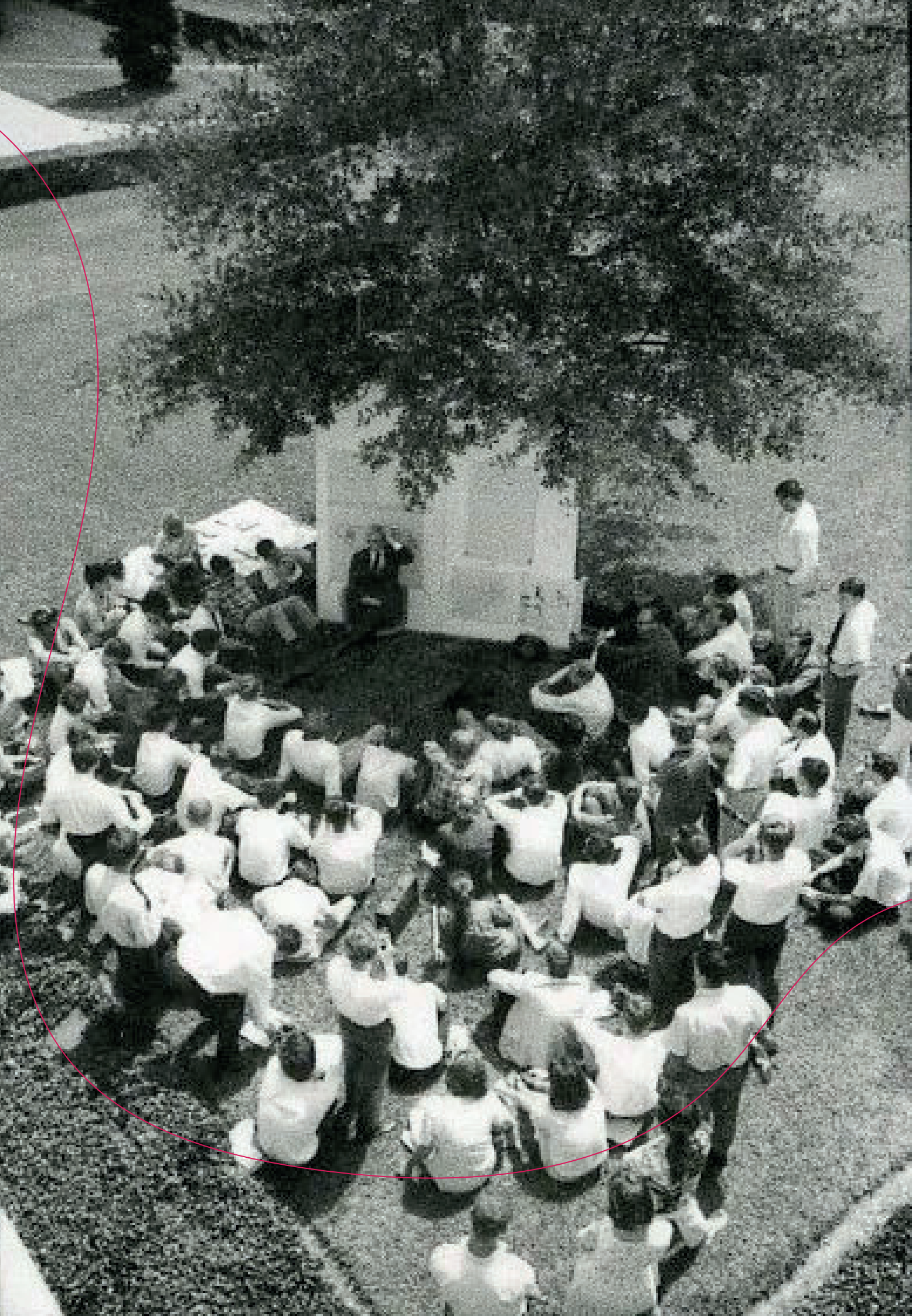


THE INSTITUTION OF KNOWLEDGE



“BIGNESS”

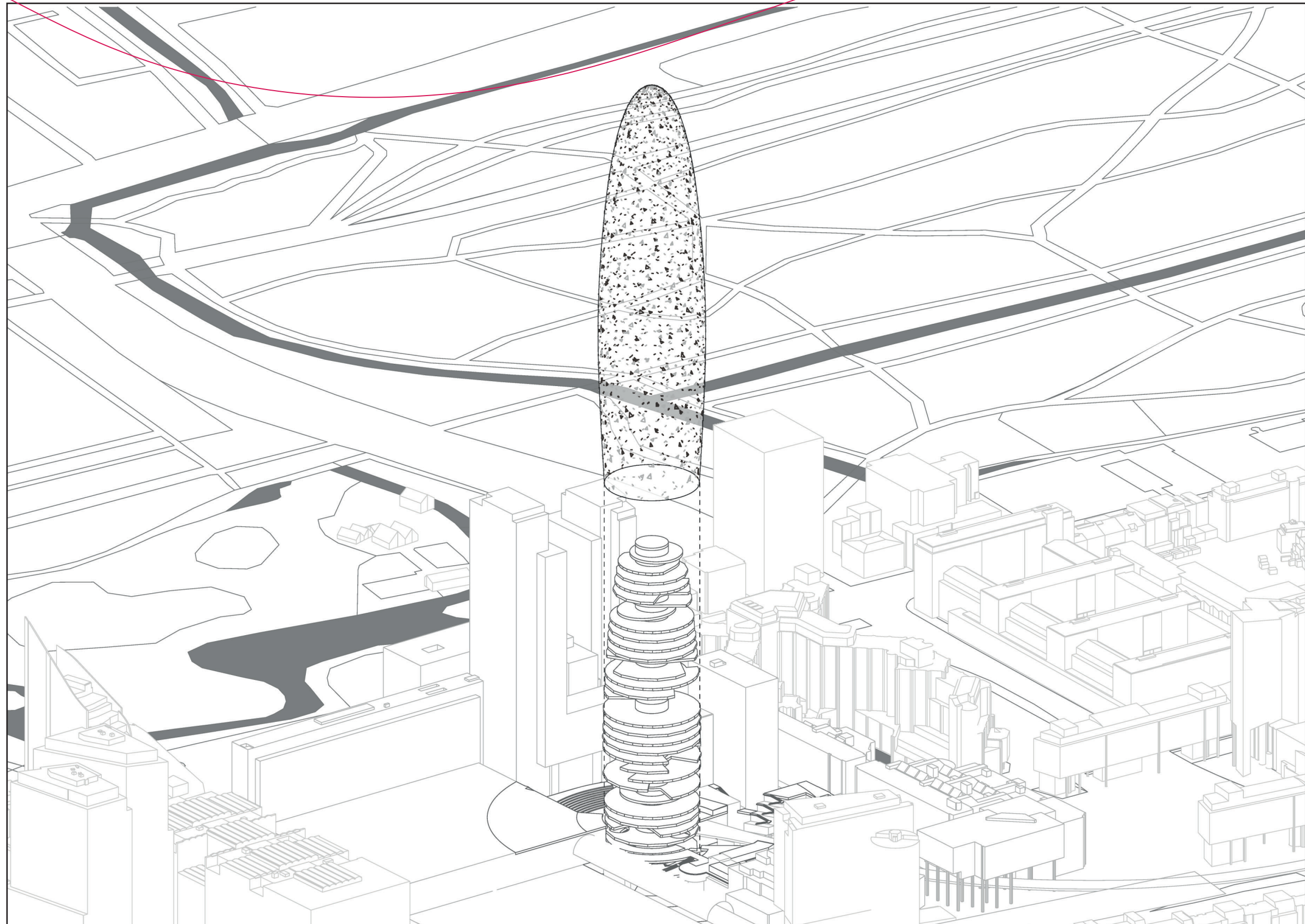




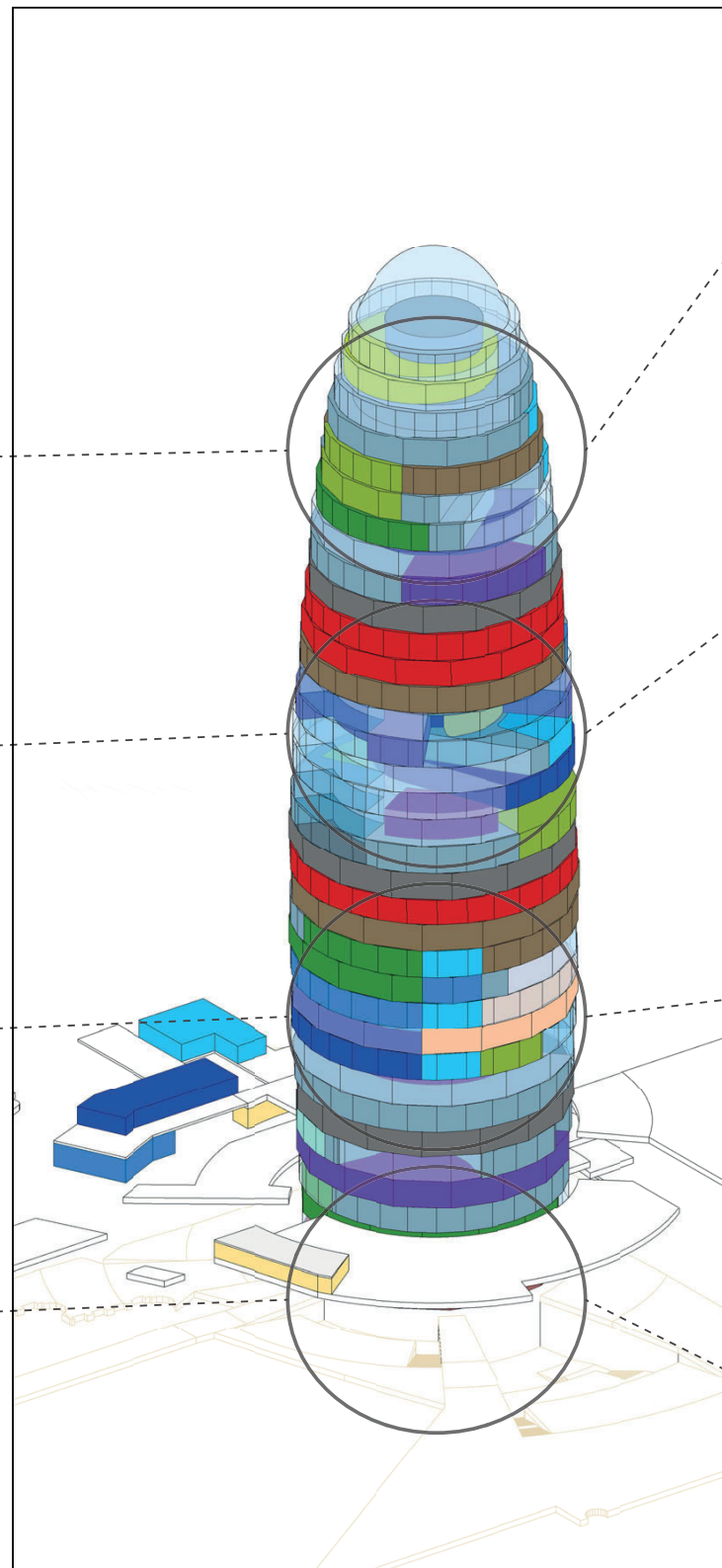
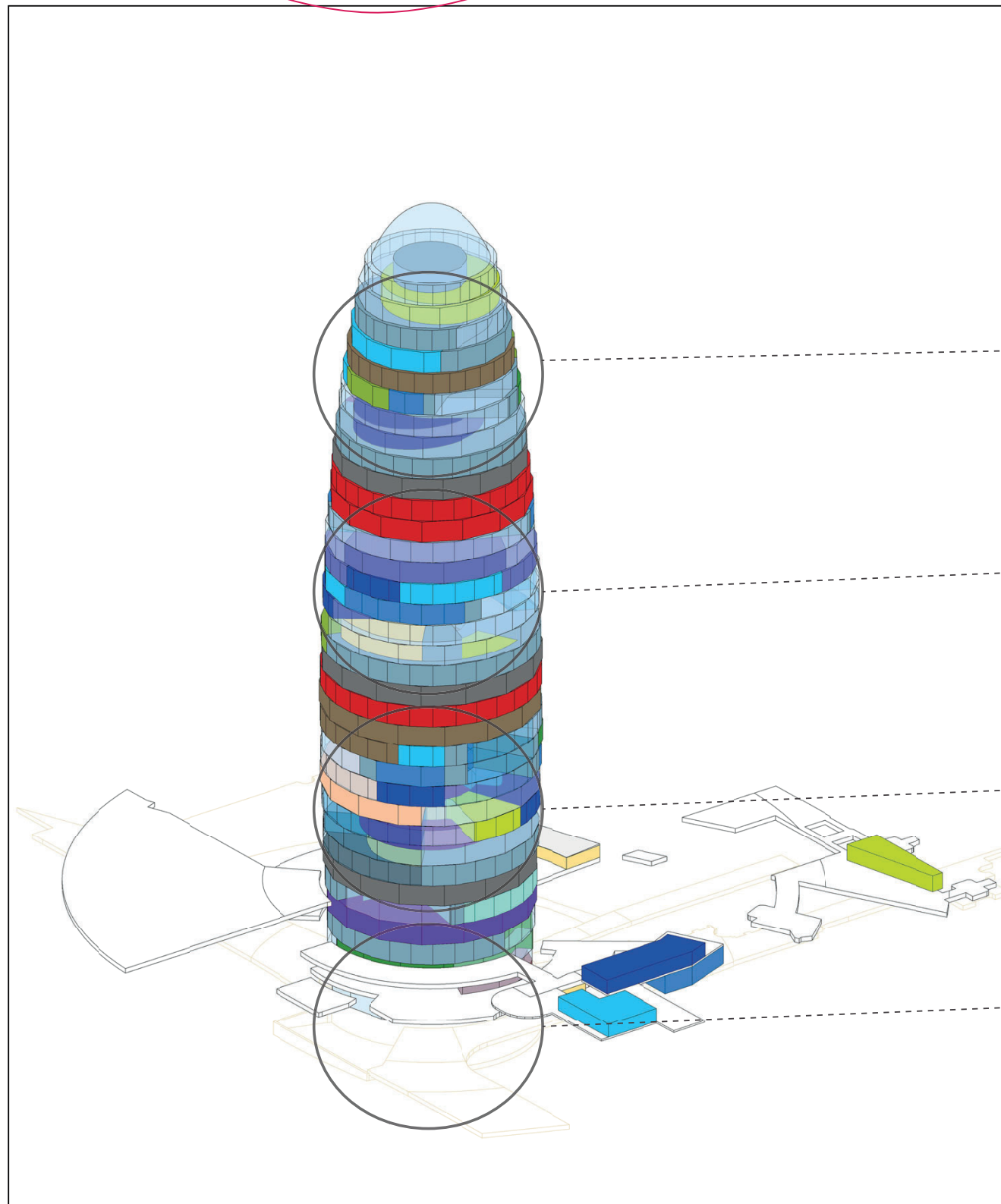
*“Schools began with a man under a tree,
who did not know he was a teacher,
discussing his realization with a few,
who did not know they were students.”*

Louis Kahn

AN OPEN SHELTER



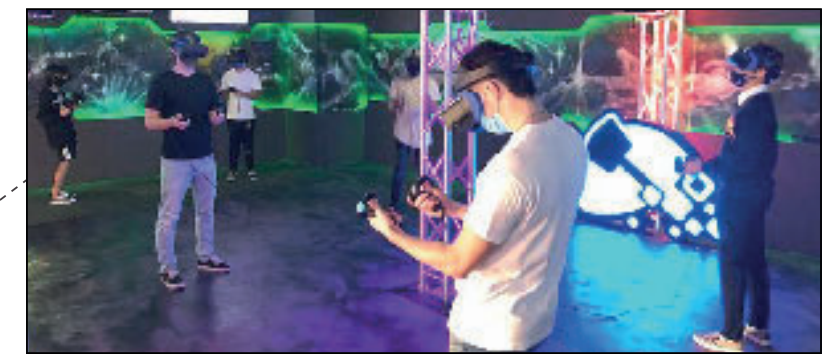
FUNCTIONAL HYBRIDITY



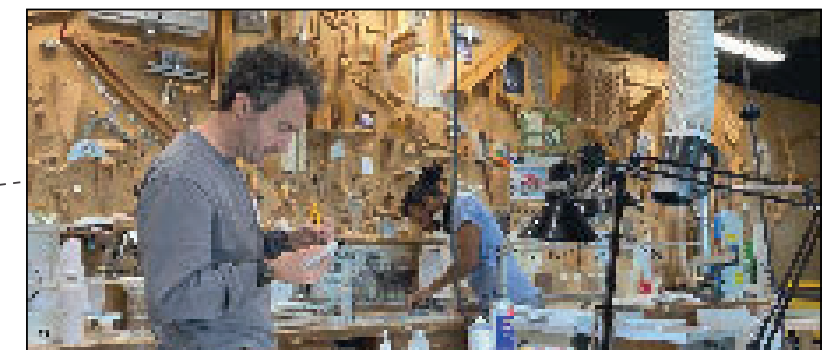
- | | | | | | |
|-------------------|-------------------|--------------------|----------|-----------|----------------|
| CAFE AND LOUNGES | COMMERCIAL SPACES | PLAYING CHILDREN | RESEARCH | THEATER | VIRTUAL CENTER |
| ENTRANCE HALL | EXHIBITION SPACE | SERVICE-MECHANICAL | SPORTS | DWELLINGS | WORKSHOPS |
| LIBRARY AND MEDIA | OFFICE | STUDIO | TEACHING | | |



GENERAL LEARNING



VIRTUALITY

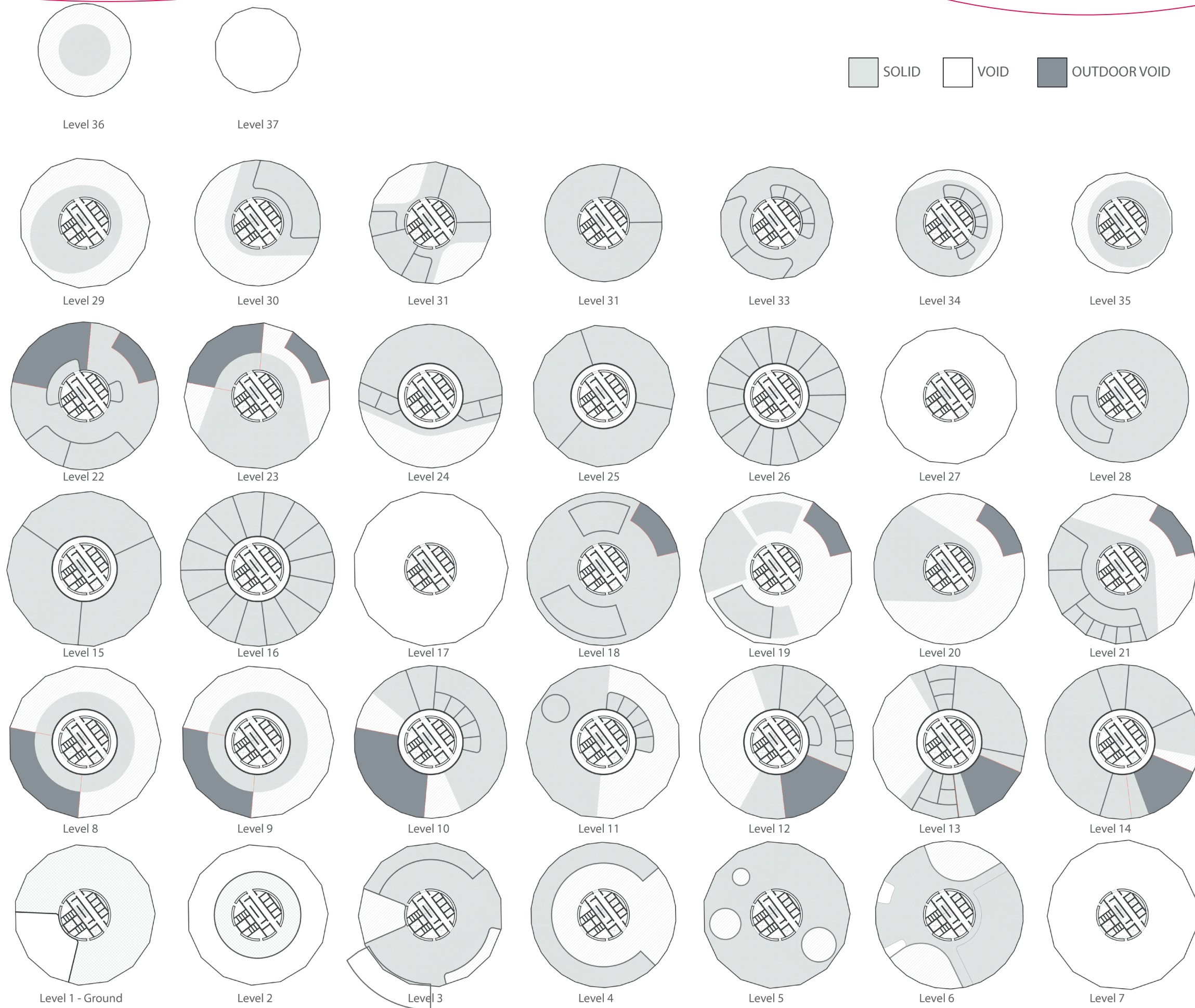


LEARN-BY-DOING



LOWER URBAN LAYERS

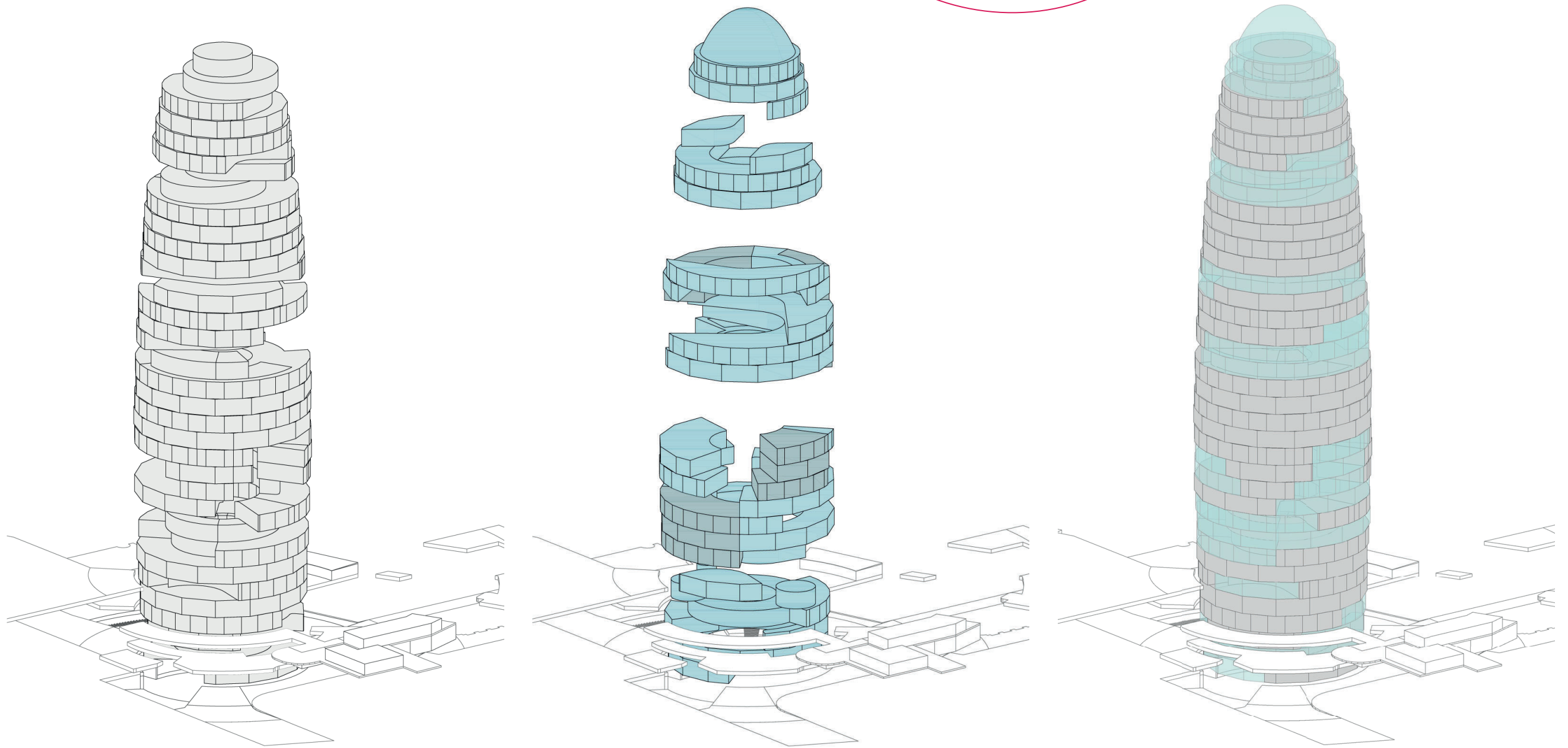
SPATIAL HYBRIDITY



SPATIAL HYBRIDITY-RELEVANCE OF "INFORMAL SPACES"



THE VOID AS A CONNECTIONG MEANS



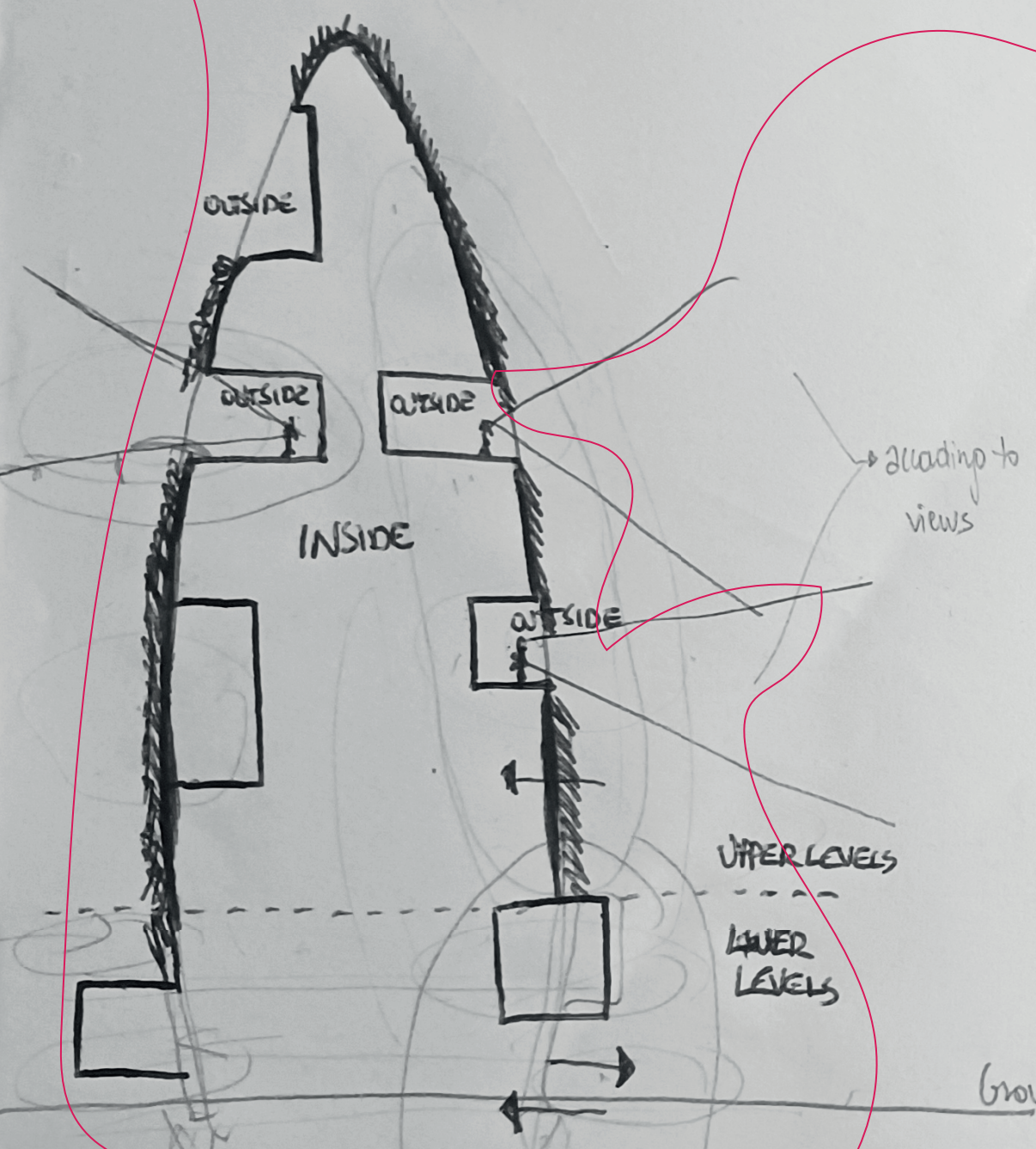
Block between (21/05 - 21/09)

"To be outside at higher levels"

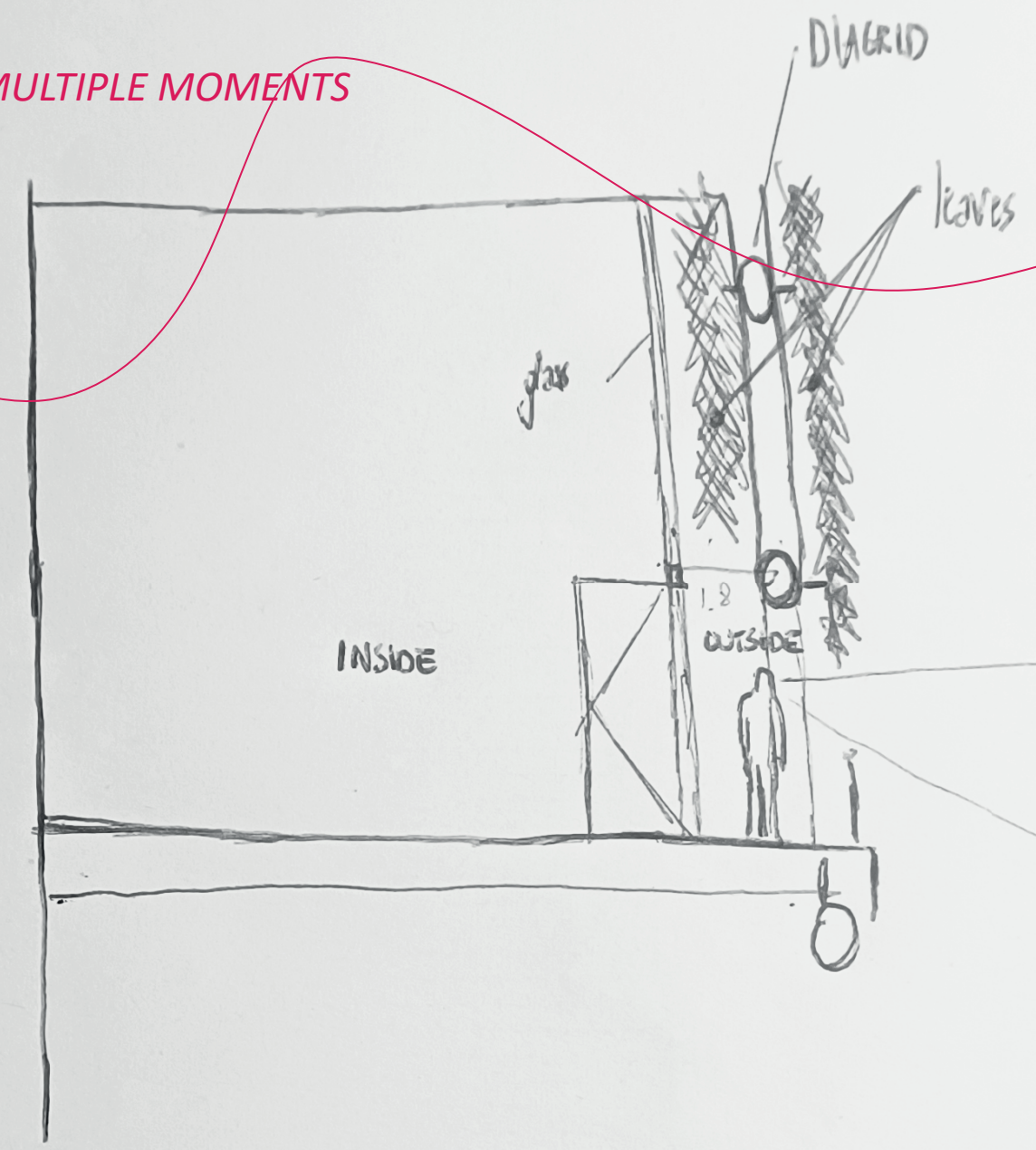
- Shade
- Porosity/depth
- Identity (leaves)

Porosity, permeability, borderless

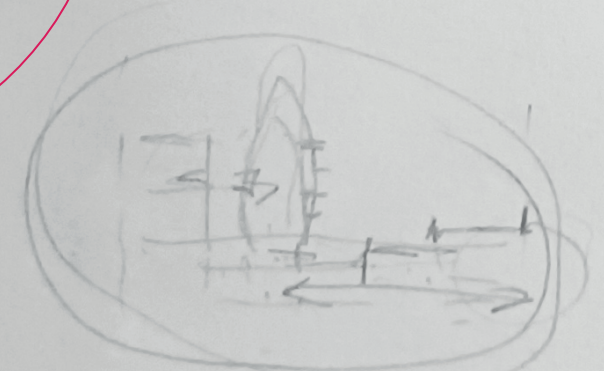
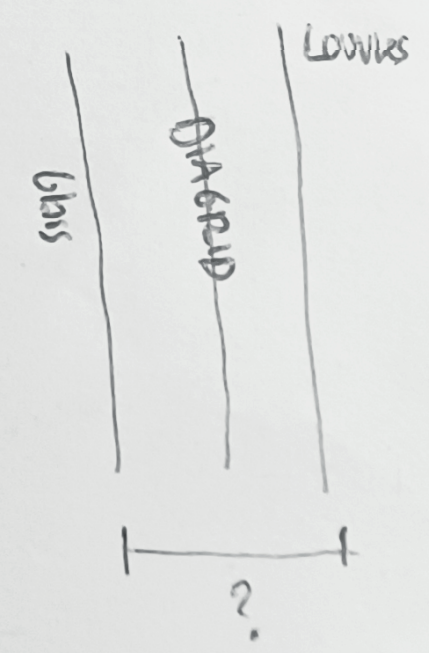
AN INTERPLAY OF MULTIPLE MOMENTS



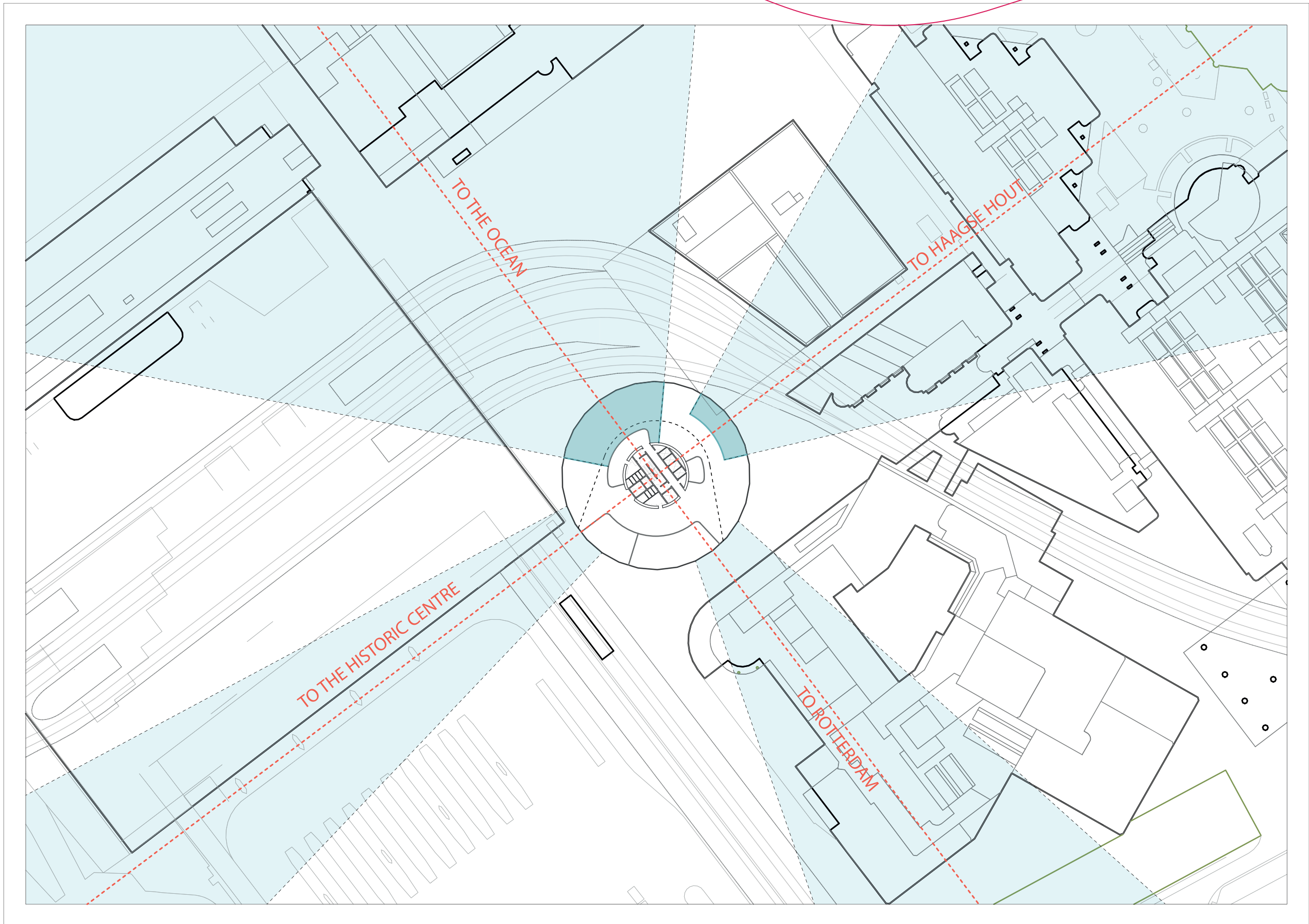
→ according to views



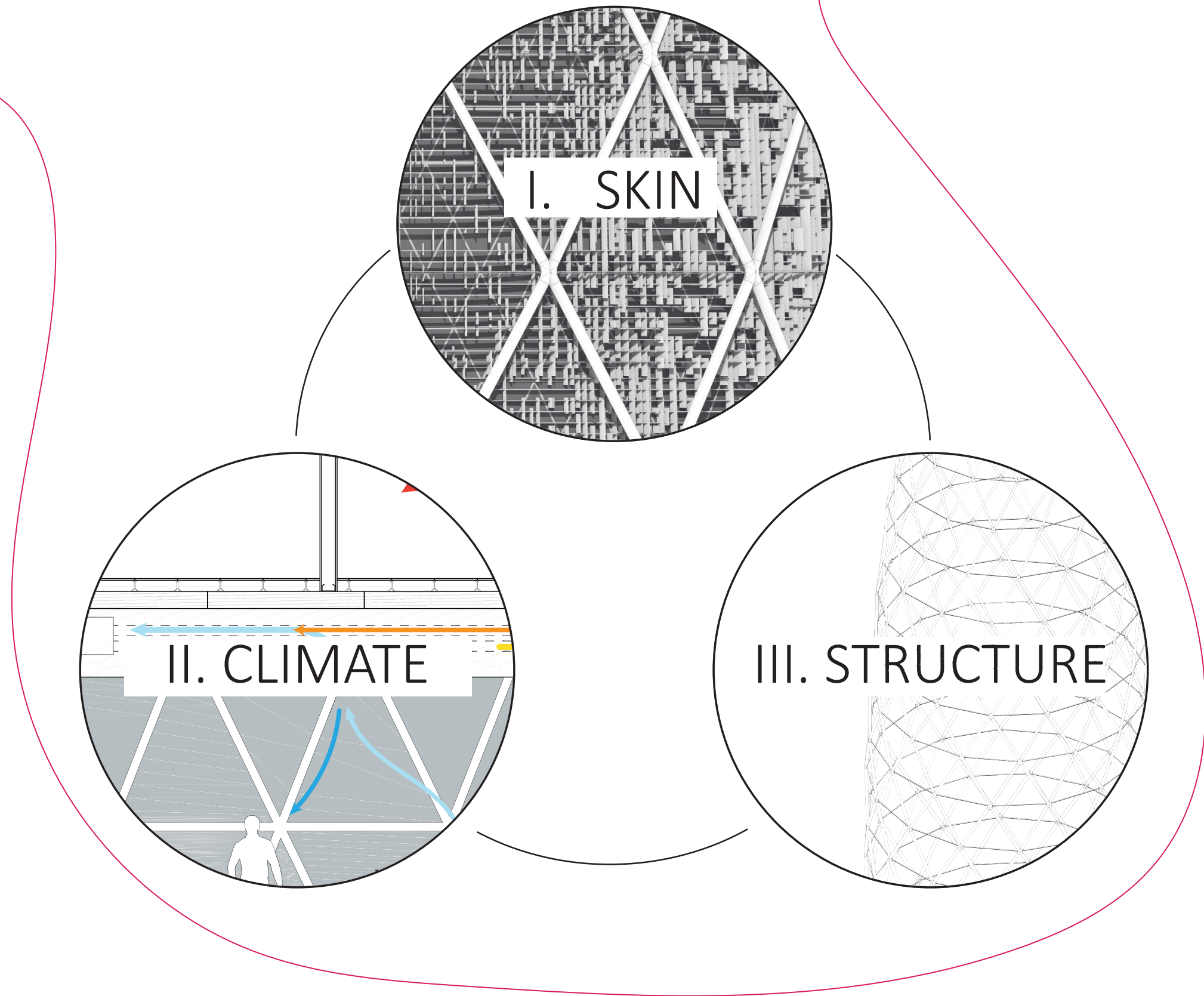
LAYERS:



CONTEXTUAL VISUAL CONNECTION

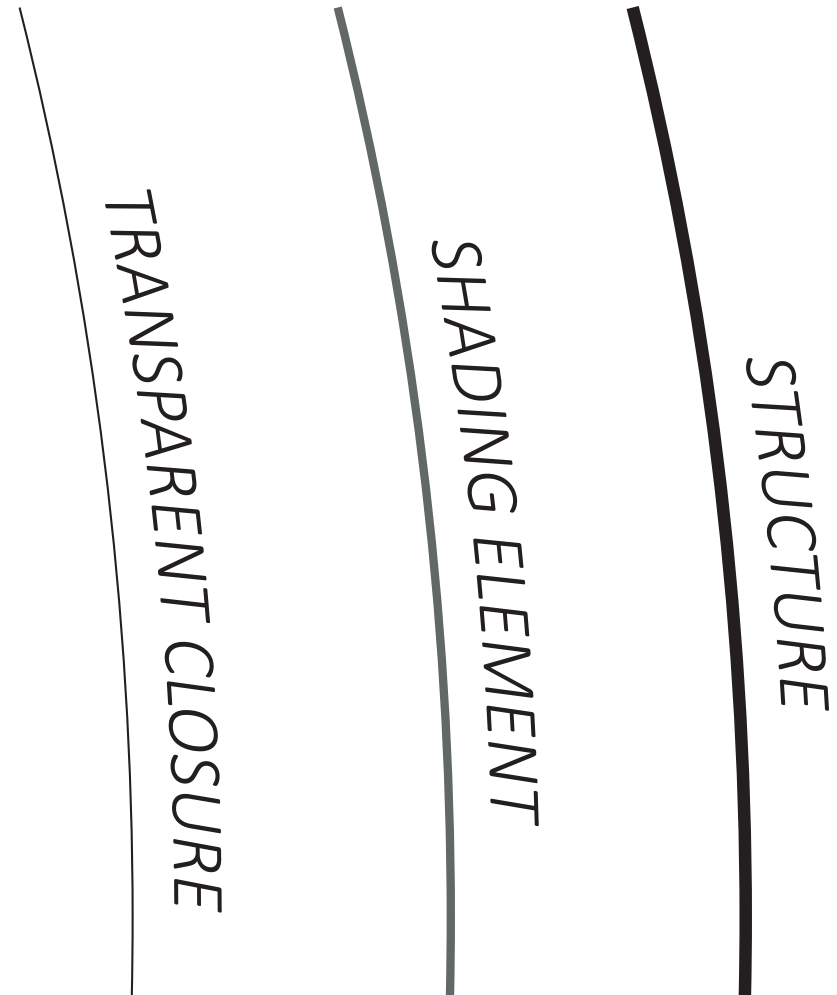


A "HOLY TRINITY" OF SUSTAINABILITY

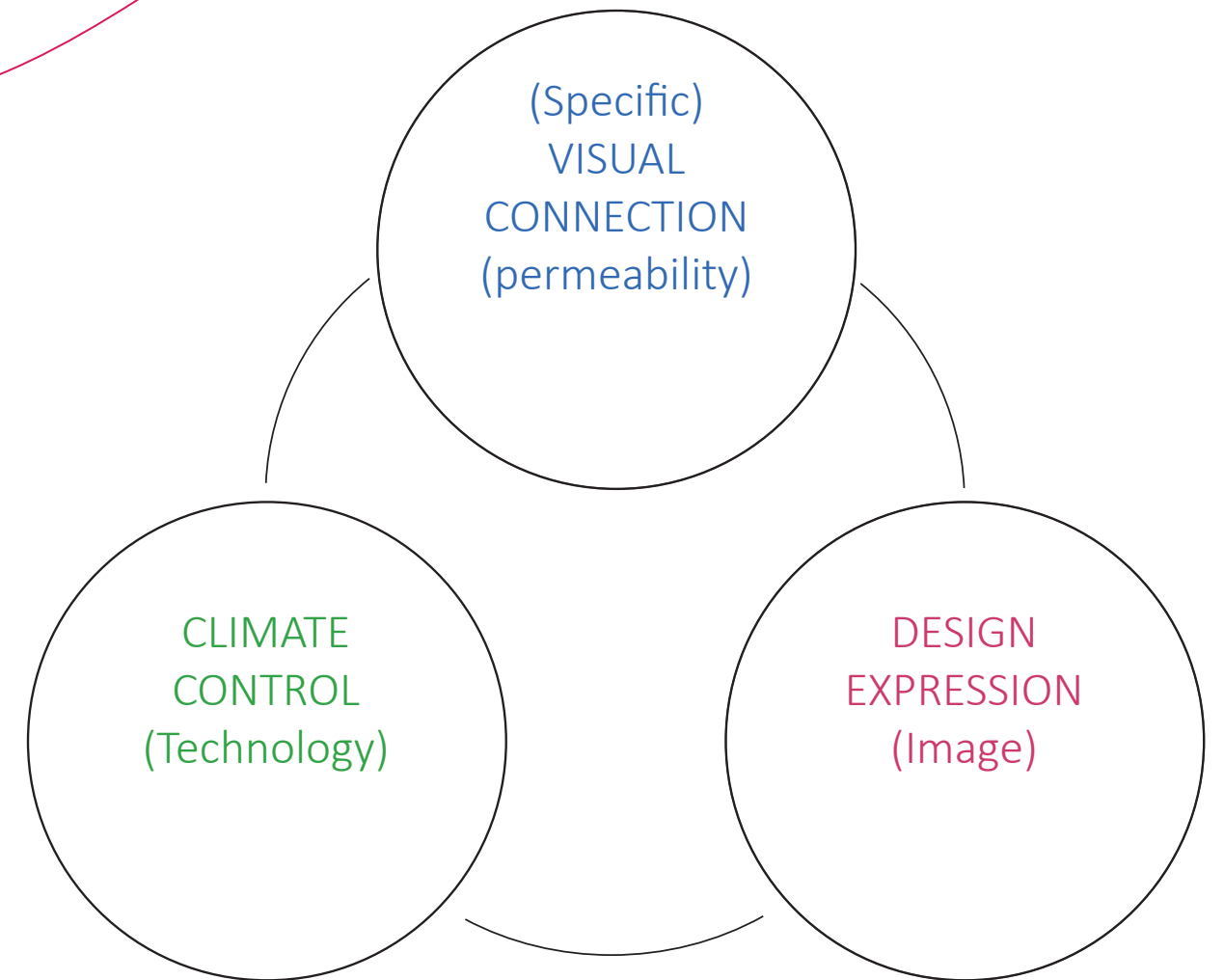


PRINCIPLES

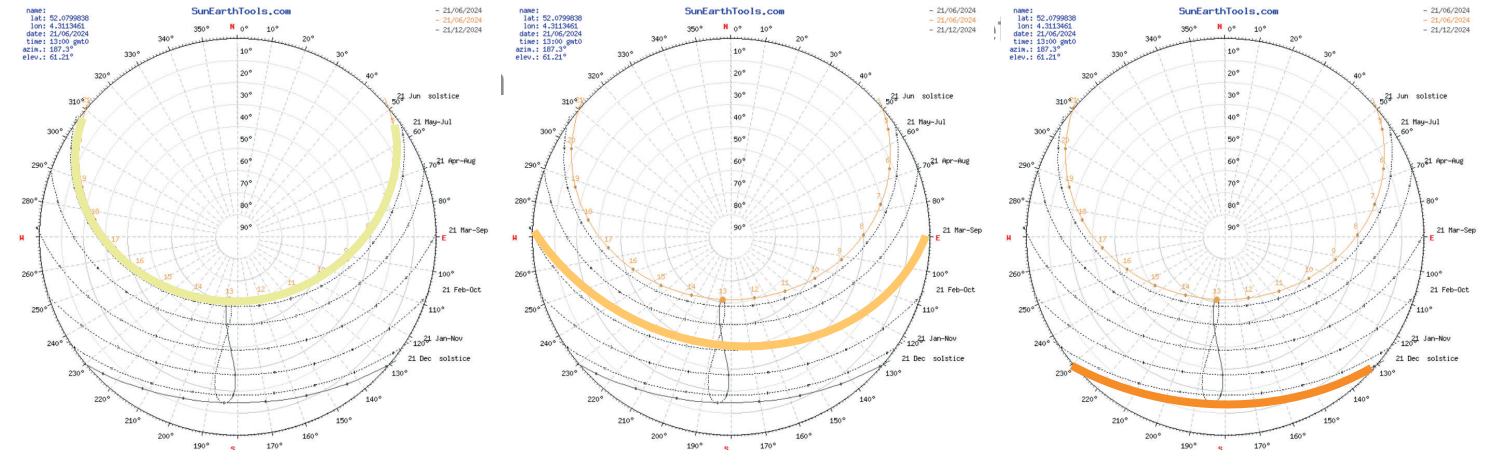
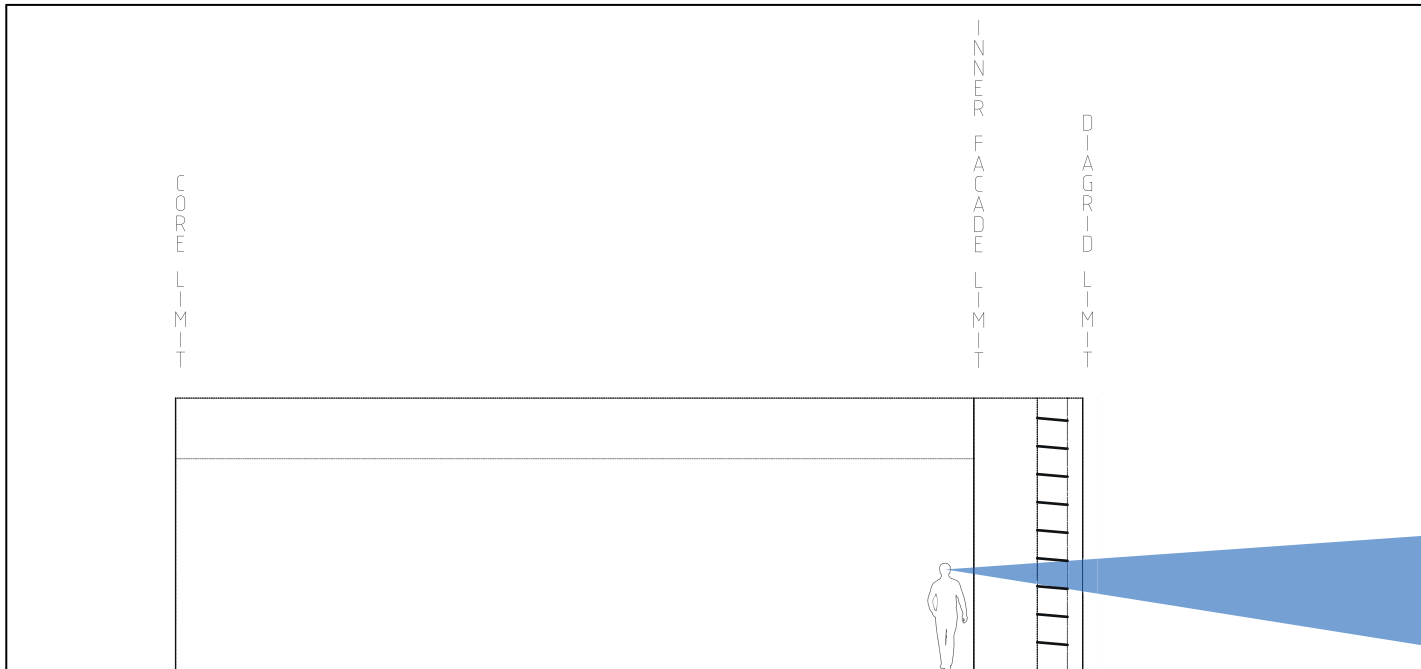
*the THREE-FOLD
NATURE
OF THE BOUNDARY:*



OBJECTIVES



VISIBILITY AND SHADING PROPERTIES

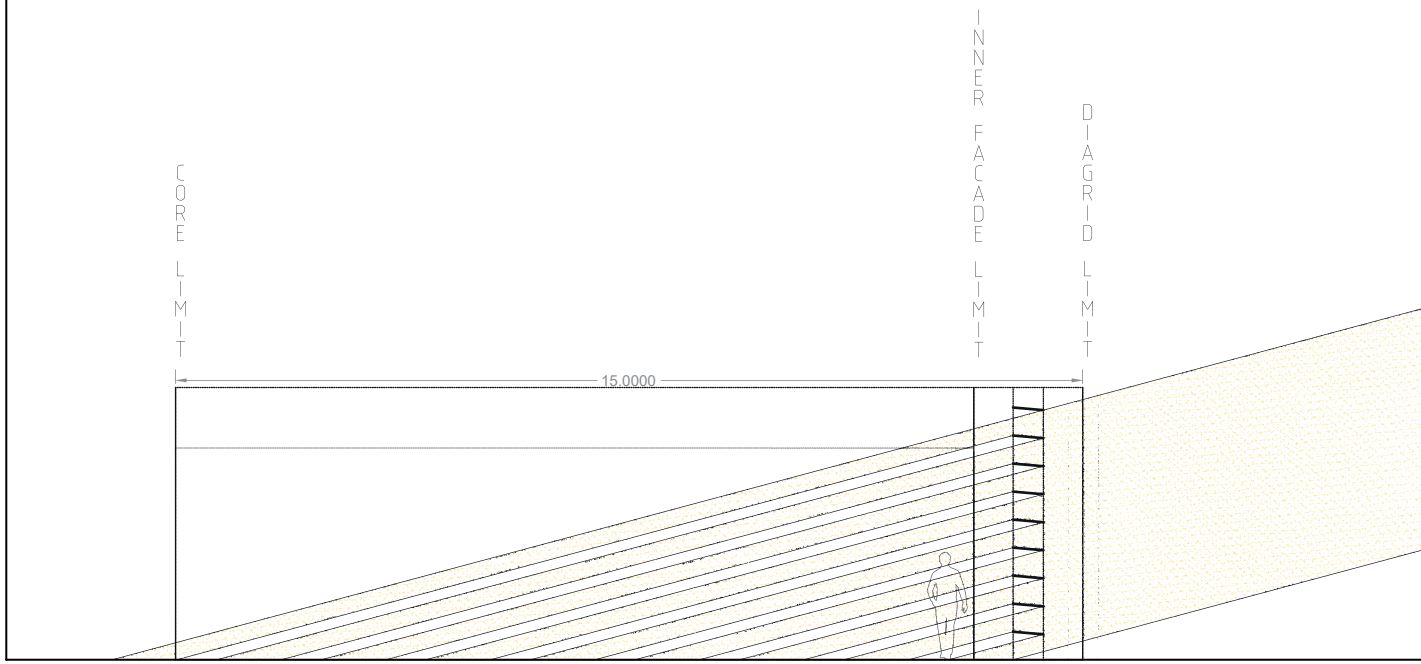


	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature °C (°F)	4.4 °C (39.9) °F	4.3 °C (39.8) °F	6.3 °C (43.3) °F	9.5 °C (49.1) °F	12.9 °C (55.3) °F	15.7 °C (60.3) °F	17.9 °C (64.3) °F	17.9 °C (64.2) °F	15.8 °C (60.4) °F	12.3 °C (54.1) °F	8.3 °C (47) °F	5.4 °C (41.7) °F
Min. Temperature °C (°F)	2.6 °C (36.7) °F	2.2 °C (35.9) °F	3.6 °C (38.5) °F	6.3 °C (43.3) °F	9.8 °C (49.6) °F	12.6 °C (54.6) °F	15 °C (58.9) °F	15.1 °C (59.1) °F	13.2 °C (55.8) °F	10 °C (50.1) °F	6.5 °C (43.7) °F	3.7 °C (38.7) °F
Max. Temperature °C (°F)	6.2 °C (43.1) °F	6.5 °C (43.7) °F	9 °C (48.2) °F	12.7 °C (54.8) °F	15.9 °C (60.6) °F	18.6 °C (65.5) °F	20.7 °C (69.2) °F	20.6 °C (69.1) °F	18.3 °C (65) °F	14.5 °C (58.1) °F	10.1 °C (50.3) °F	7 °C (44.7) °F
Precipitation / Rainfall mm (in)	71 (2)	57 (2)	56 (2)	51 (2)	62 (2)	64 (2)	79 (3)	83 (3)	82 (3)	81 (3)	81 (3)	80 (3)
Humidity(%)	83%	82%	80%	75%	75%	75%	75%	77%	78%	80%	84%	83%
Rainy days (d)	10	9	9	8	9	8	10	10	10	10	11	11
avg. Sun hours (hours)	3.5	4.4	5.8	8.3	9.4	9.9	10.1	9.2	7.1	5.5	3.9	3.3

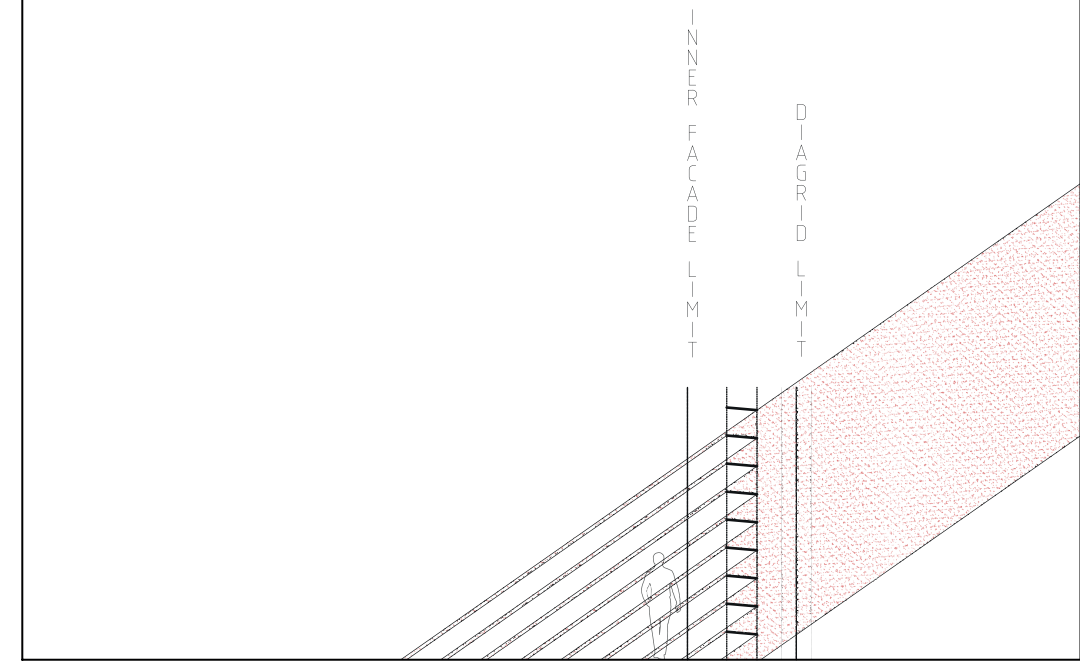
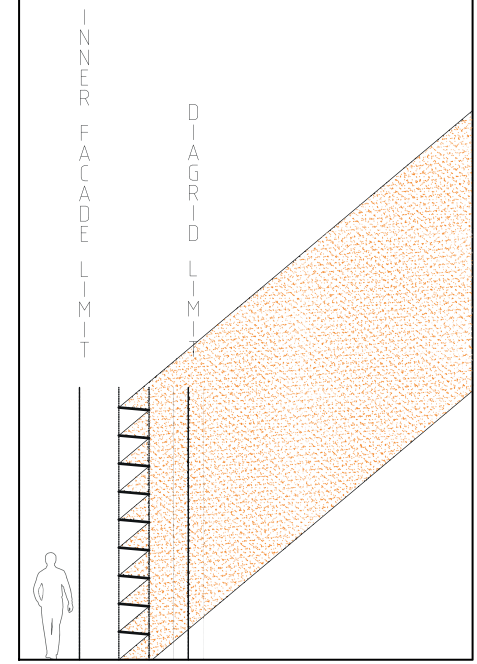
Data: 1991 - 2021 Min. Temperature °C (°F), Max. Temperature °C (°F), Precipitation / Rainfall mm (in), Humidity, Rainy days. Data: 1999 - 2019: avg. Sun hours

Source: SunEarthTools

21-06 15°: Winter Solstice Azimut

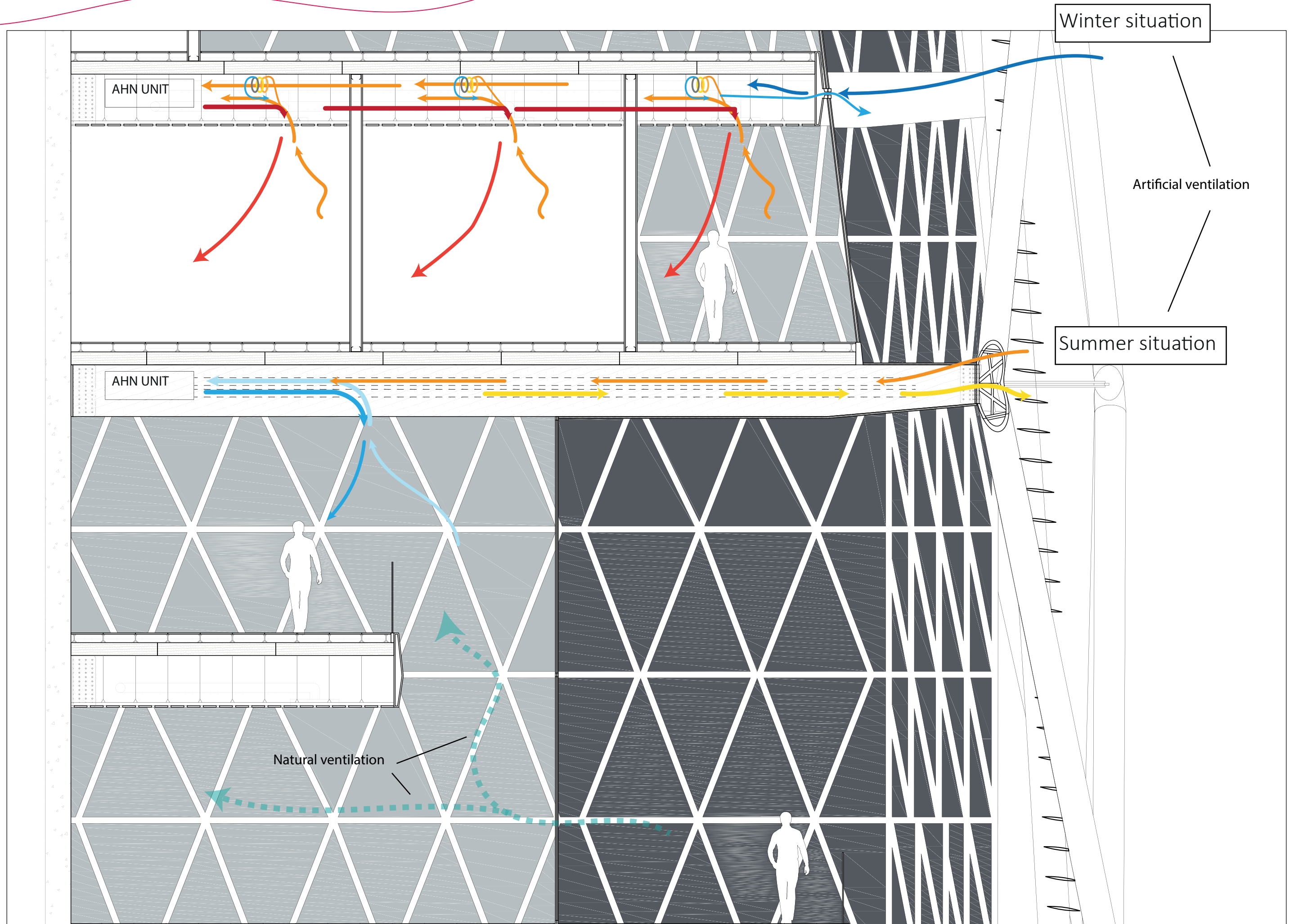


21-03 40°: Equinox Azimut Light to Shadow ratio: 18% (1to5.5)

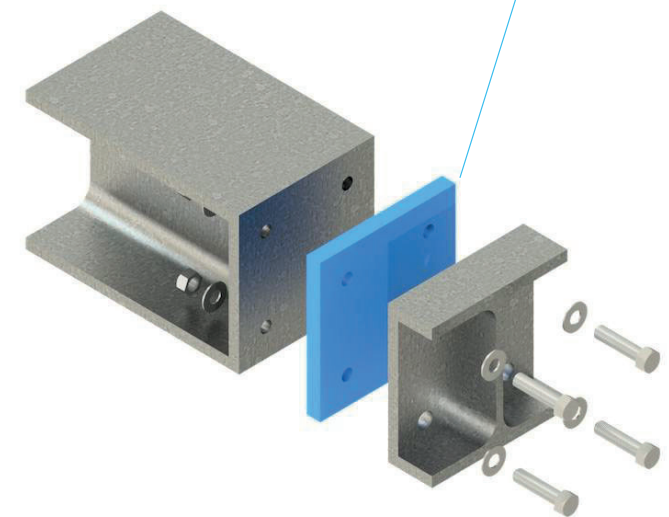
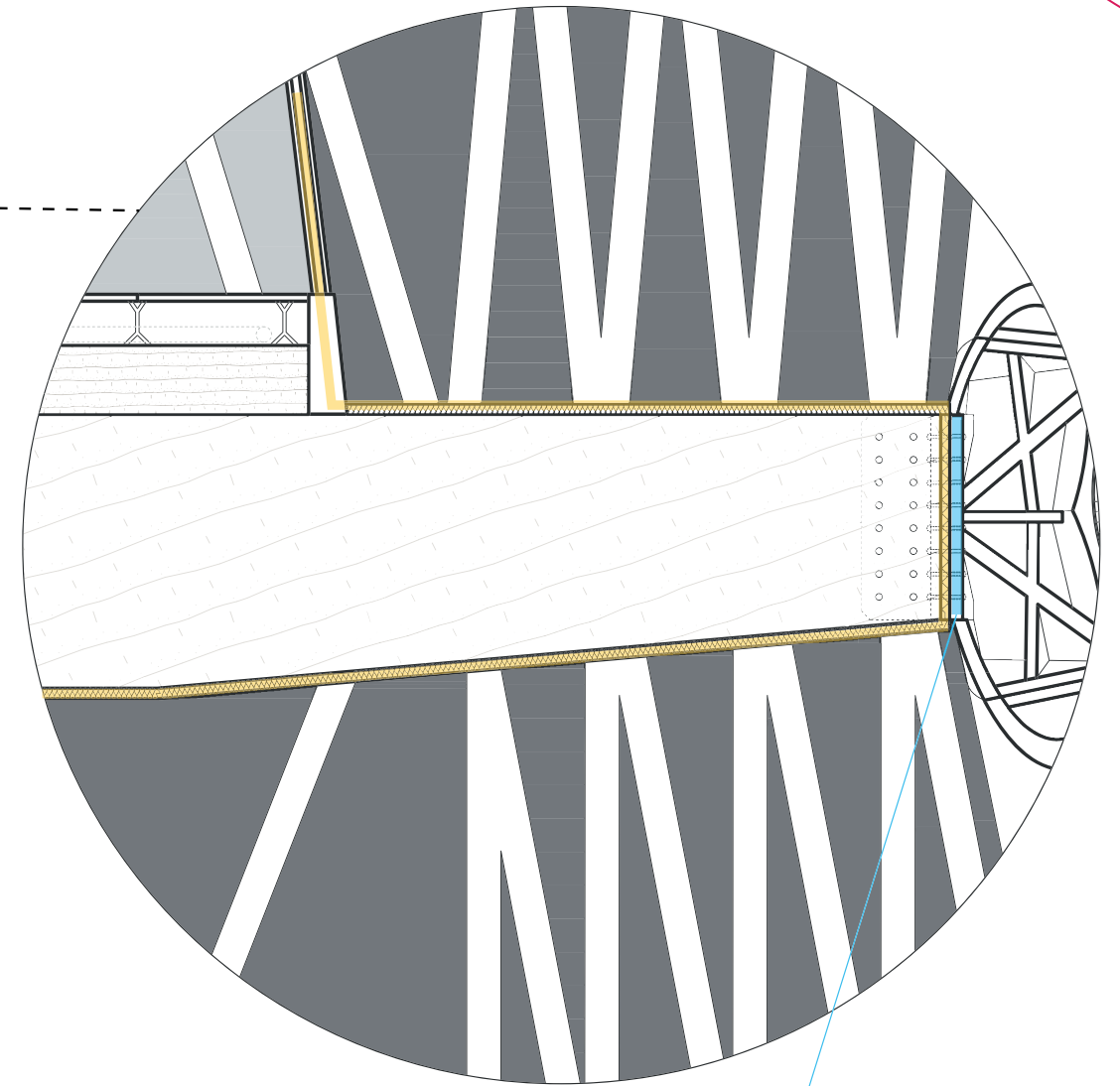
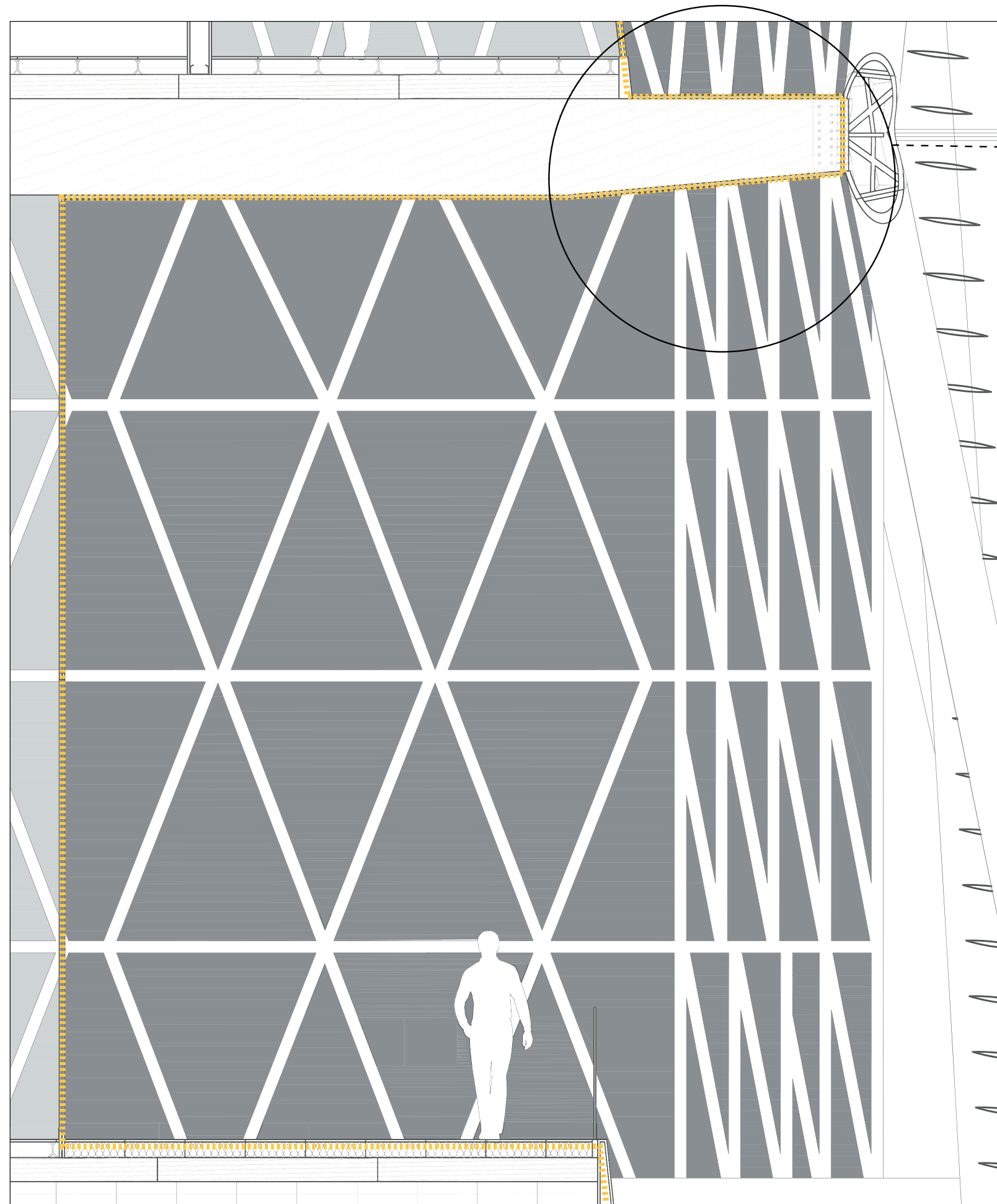


21-06: System offers complete shading between 9:00 and 16:00

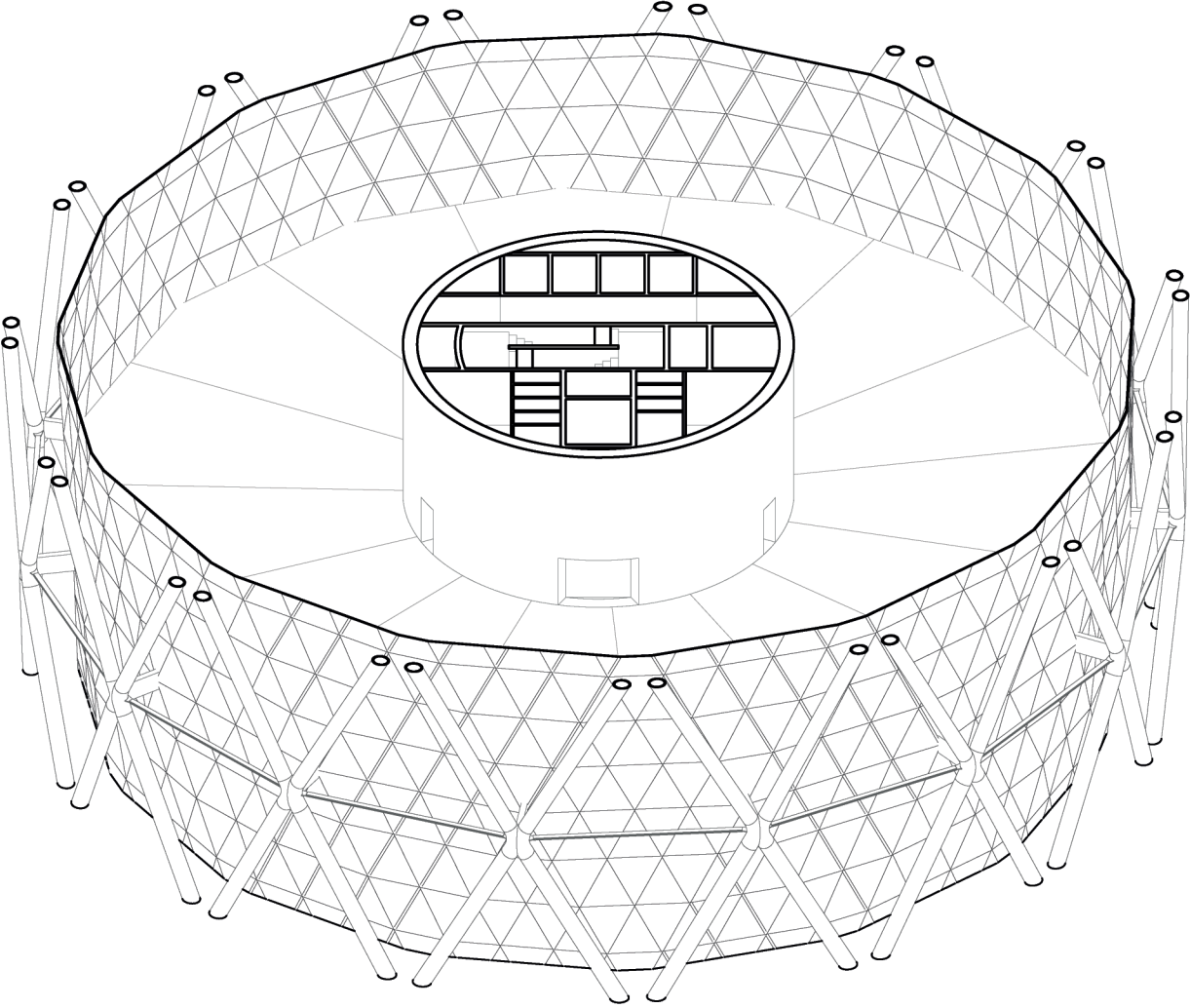
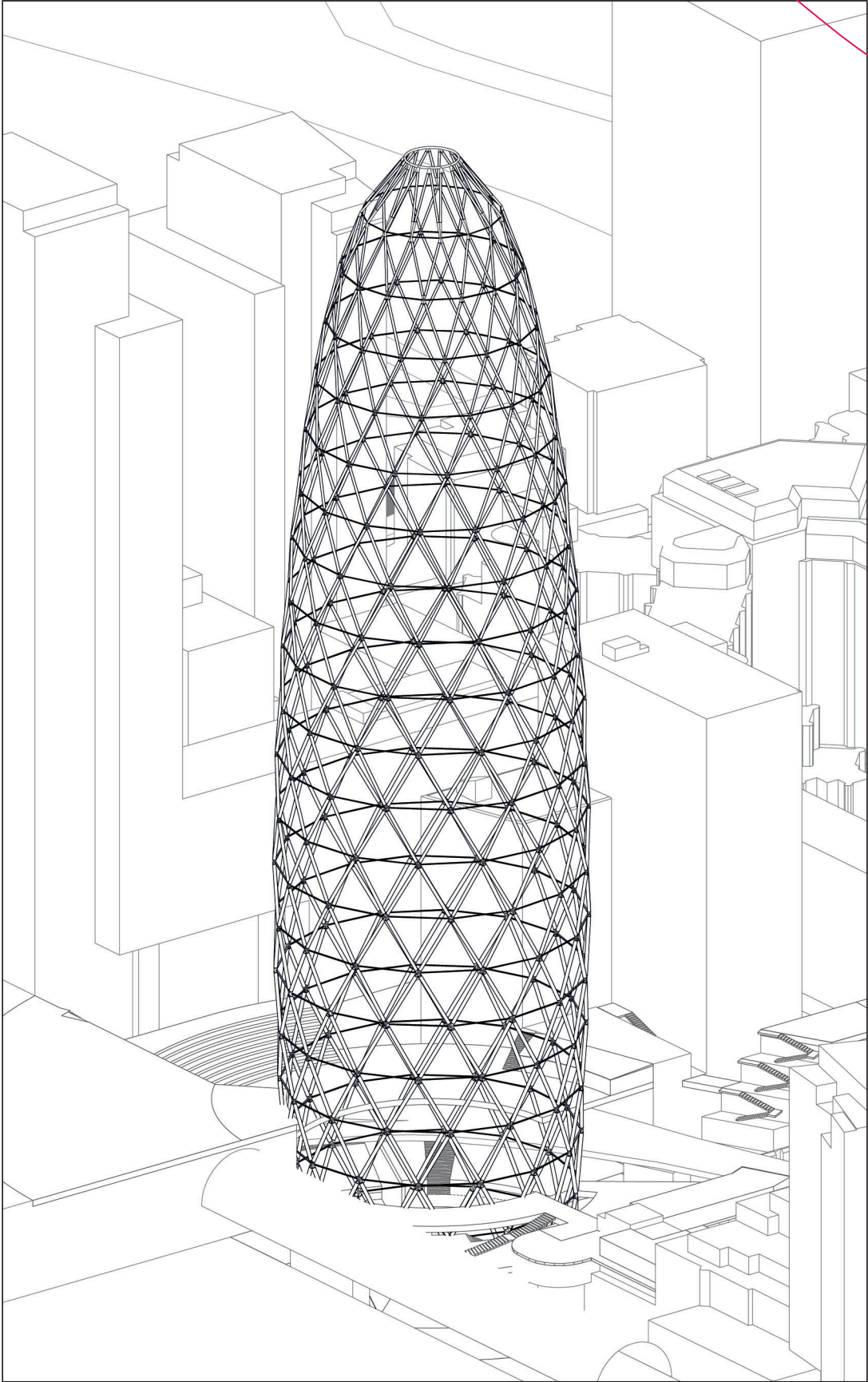
CLIMATE SECTION



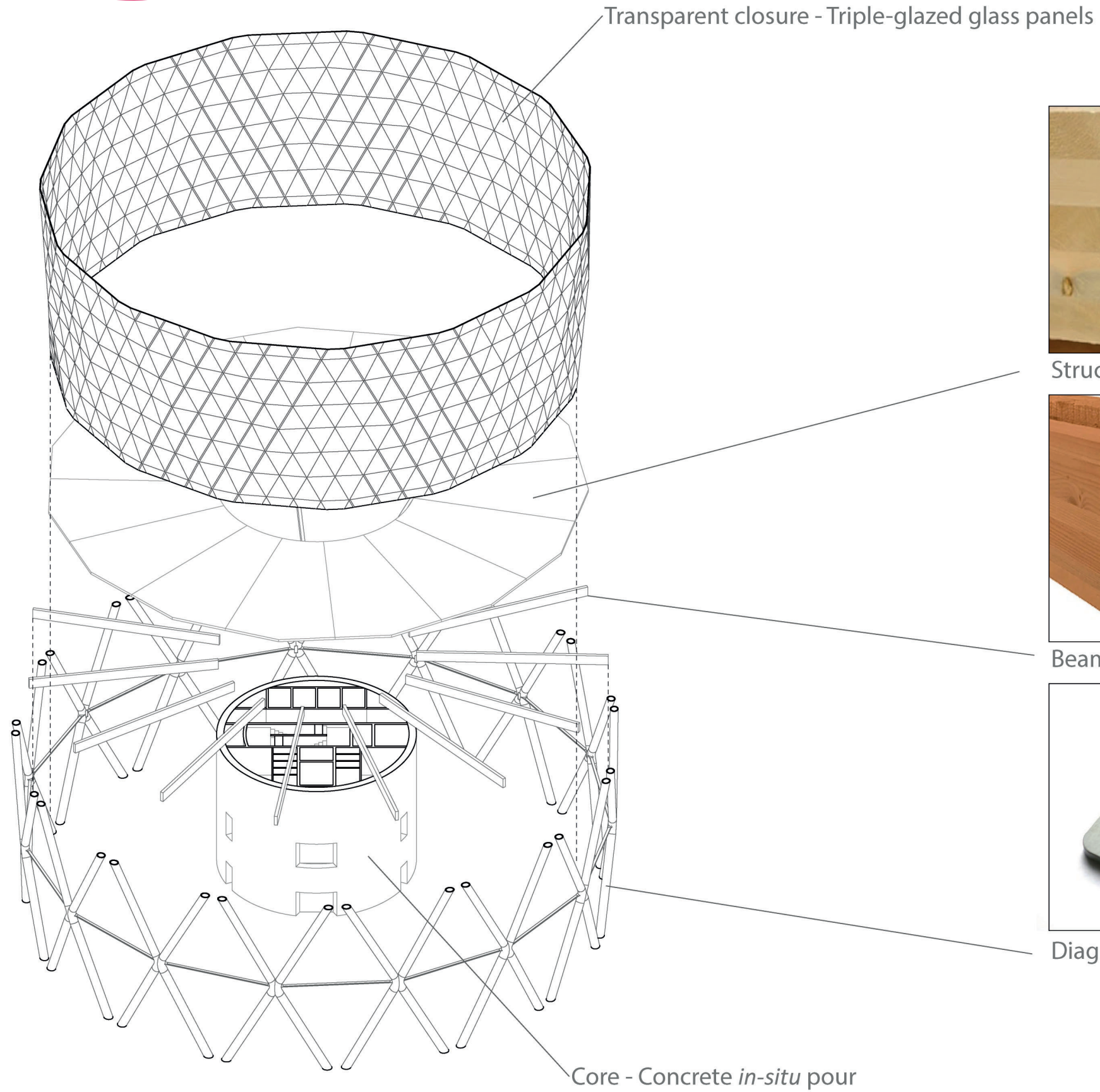
THE EXTERNAL STRUCTURE-EXOSKELETON



A DURABLE PLATFORM



MATERIALS



Transparent closure - Triple-glazed glass panels



Structural slabs - Cross-lam panels

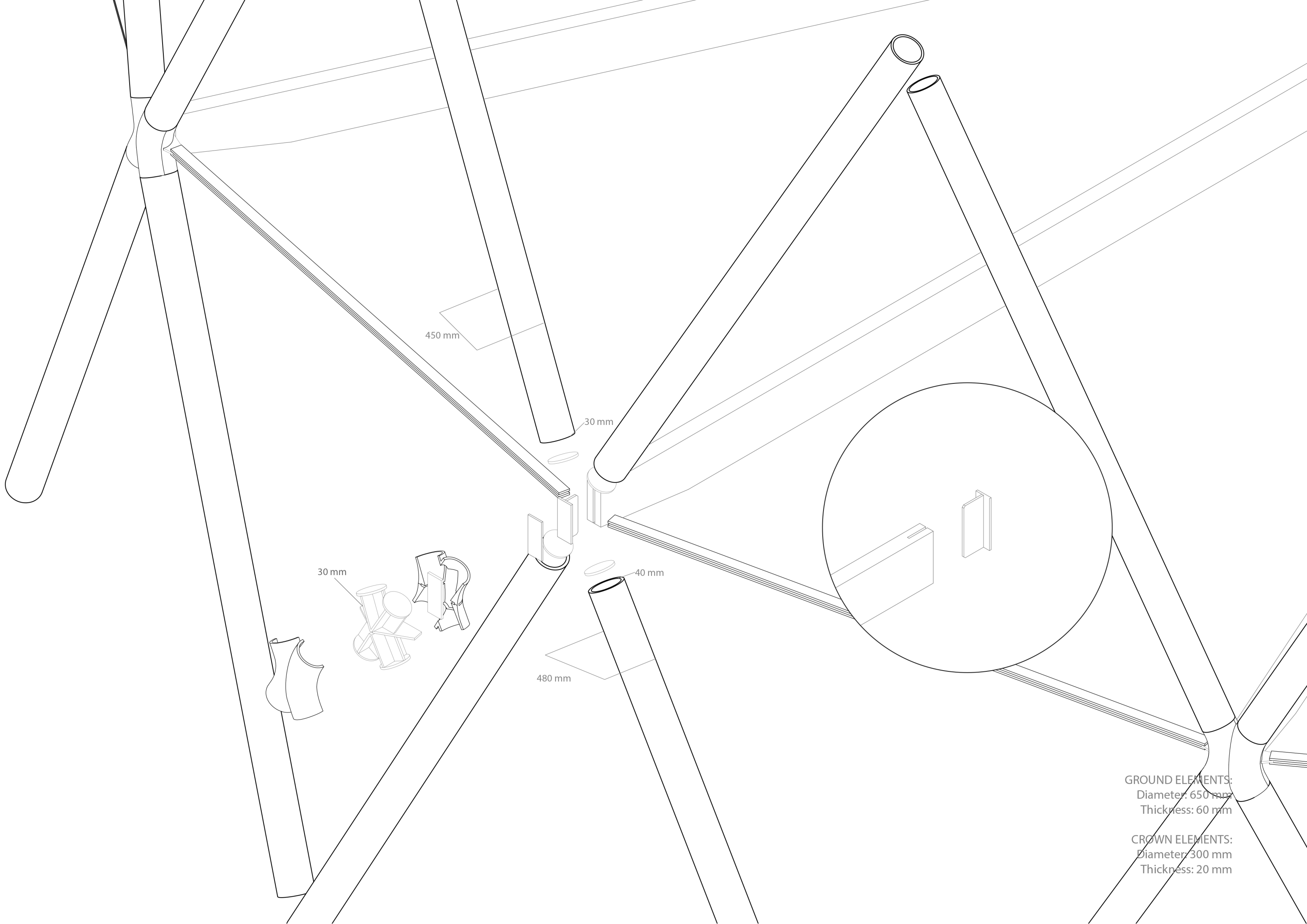


Beams - Glulam timber



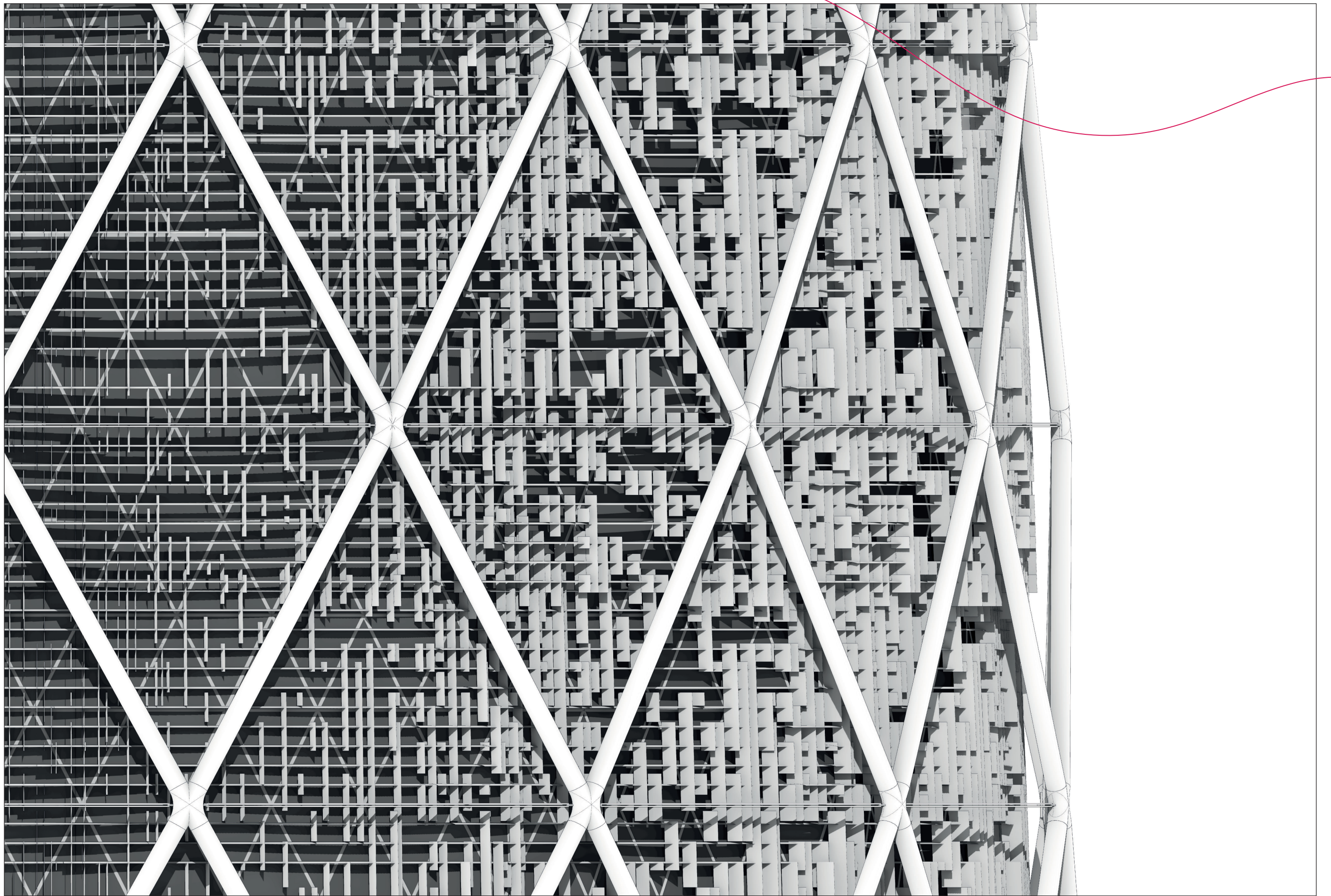
Diagrid elements - Structural steel

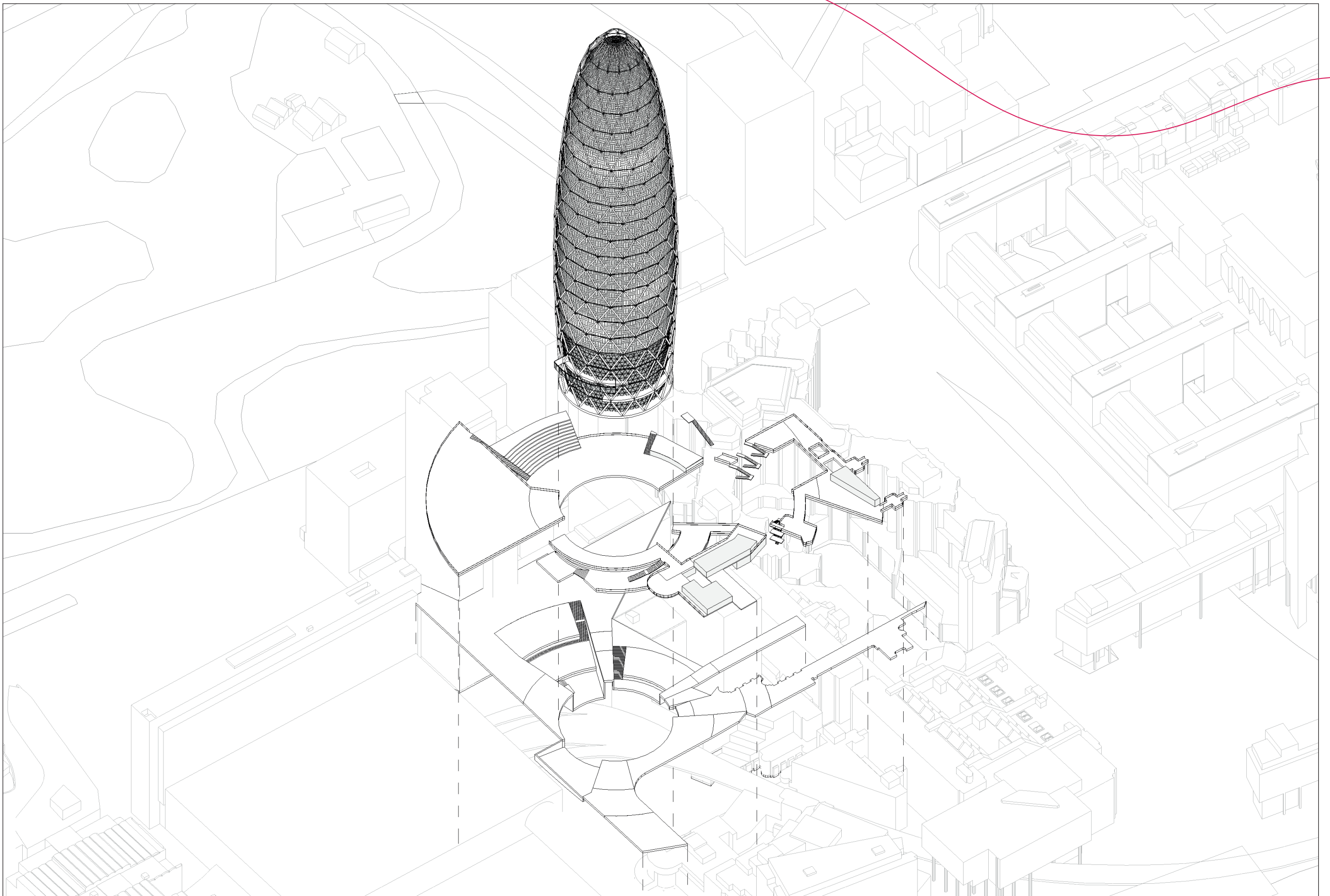
Core - Concrete *in-situ* pour

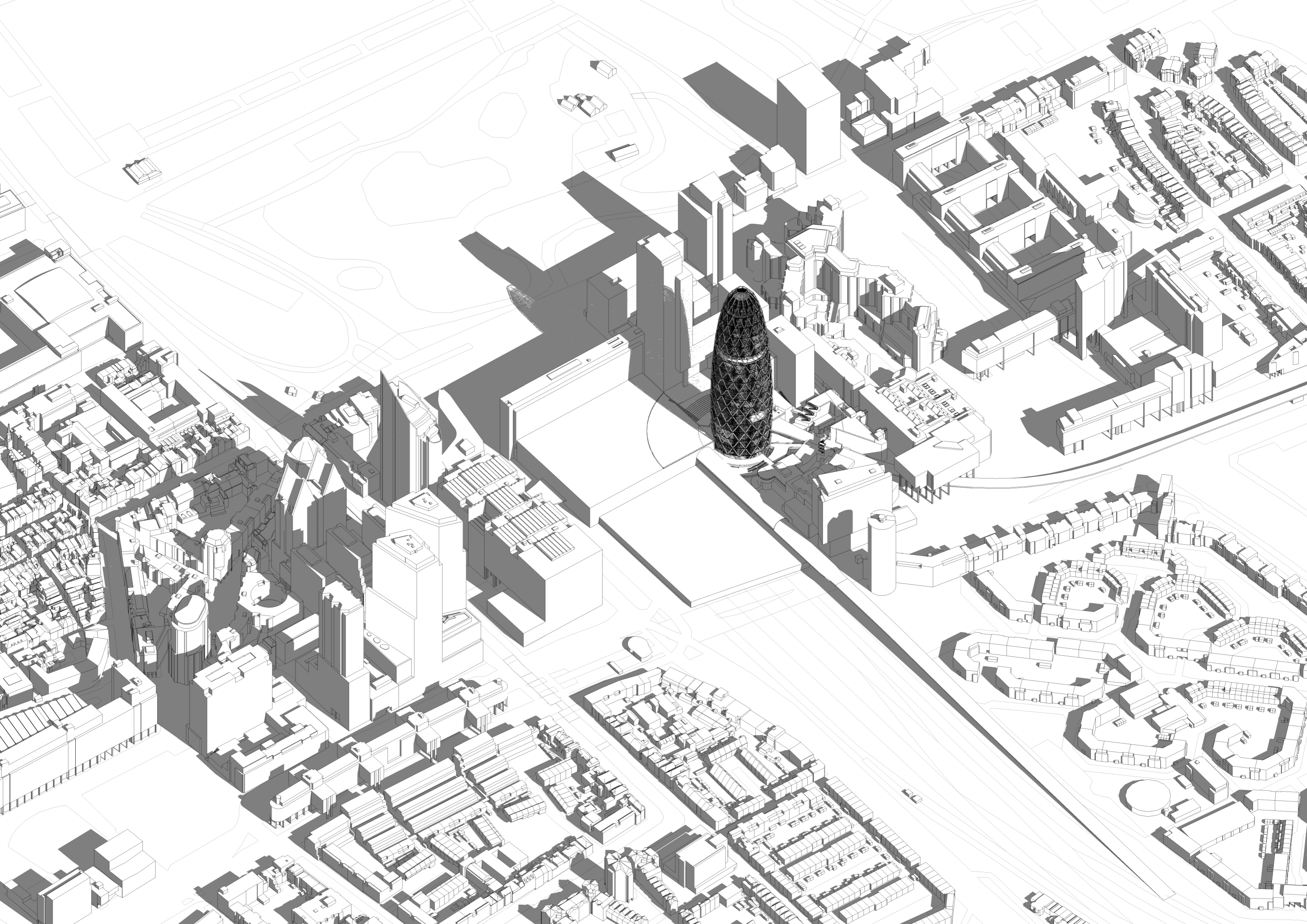


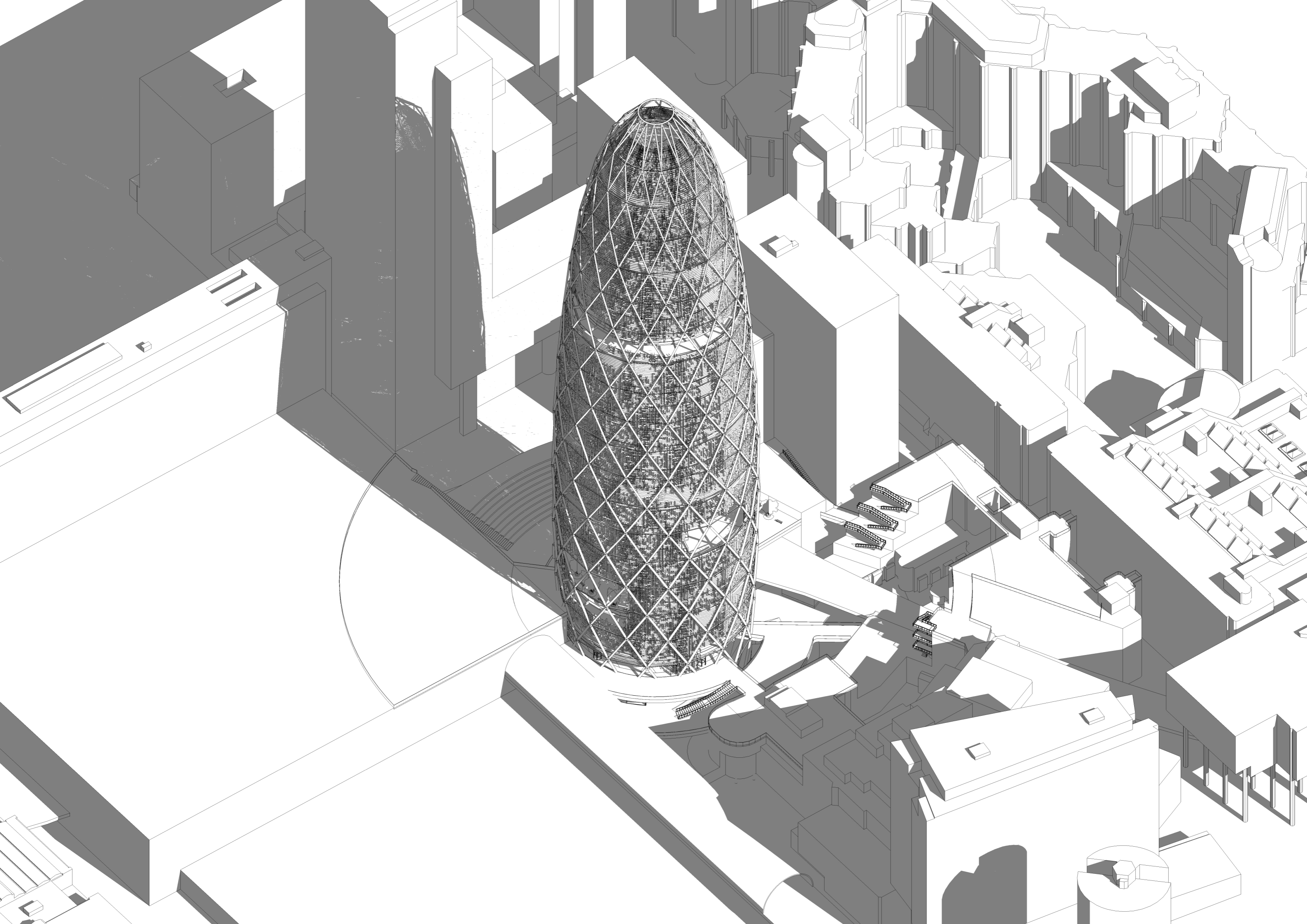
GROUND ELEMENTS:
Diameter: 650 mm
Thickness: 60 mm

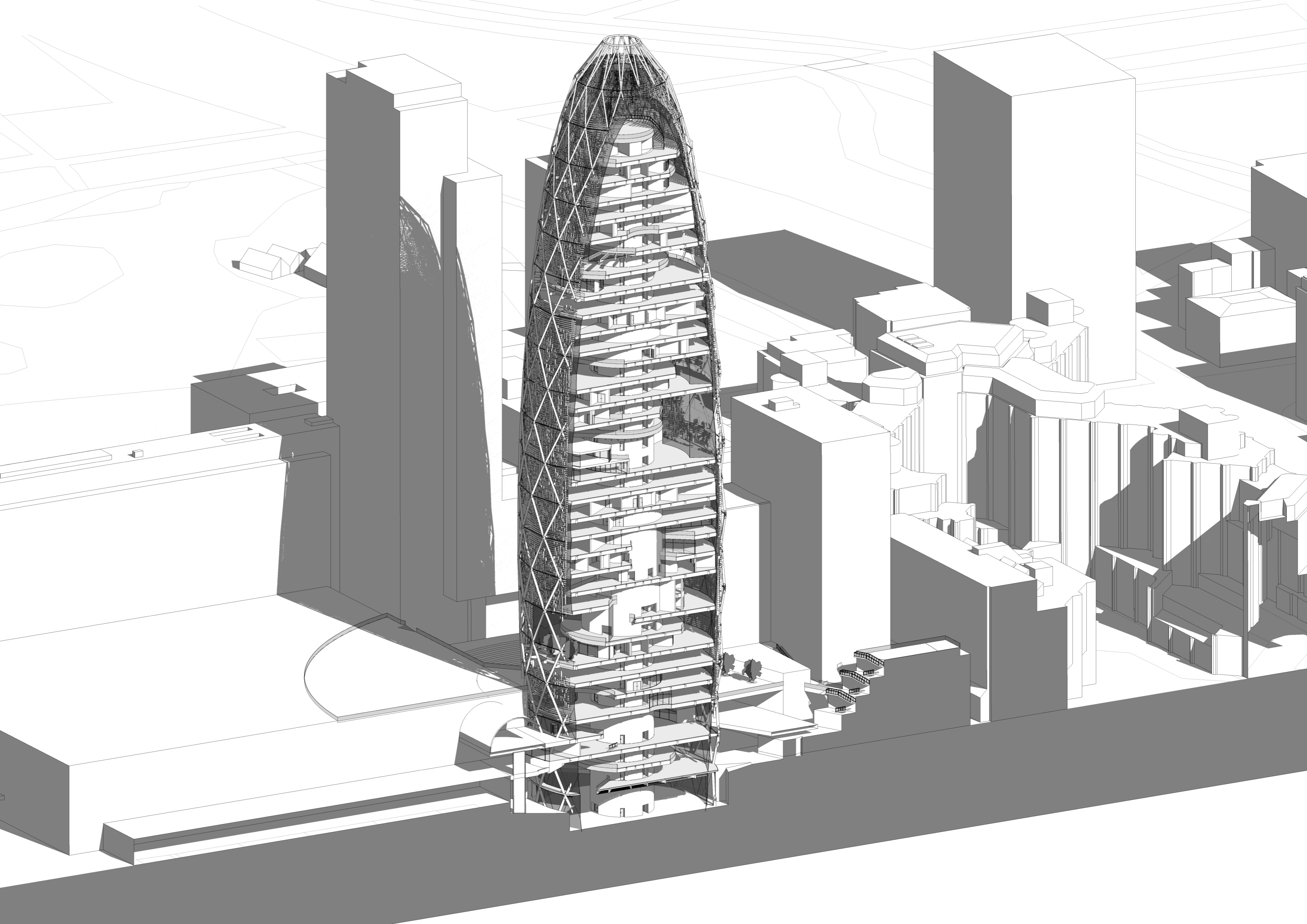
CROWN ELEMENTS:
Diameter: 300 mm
Thickness: 20 mm

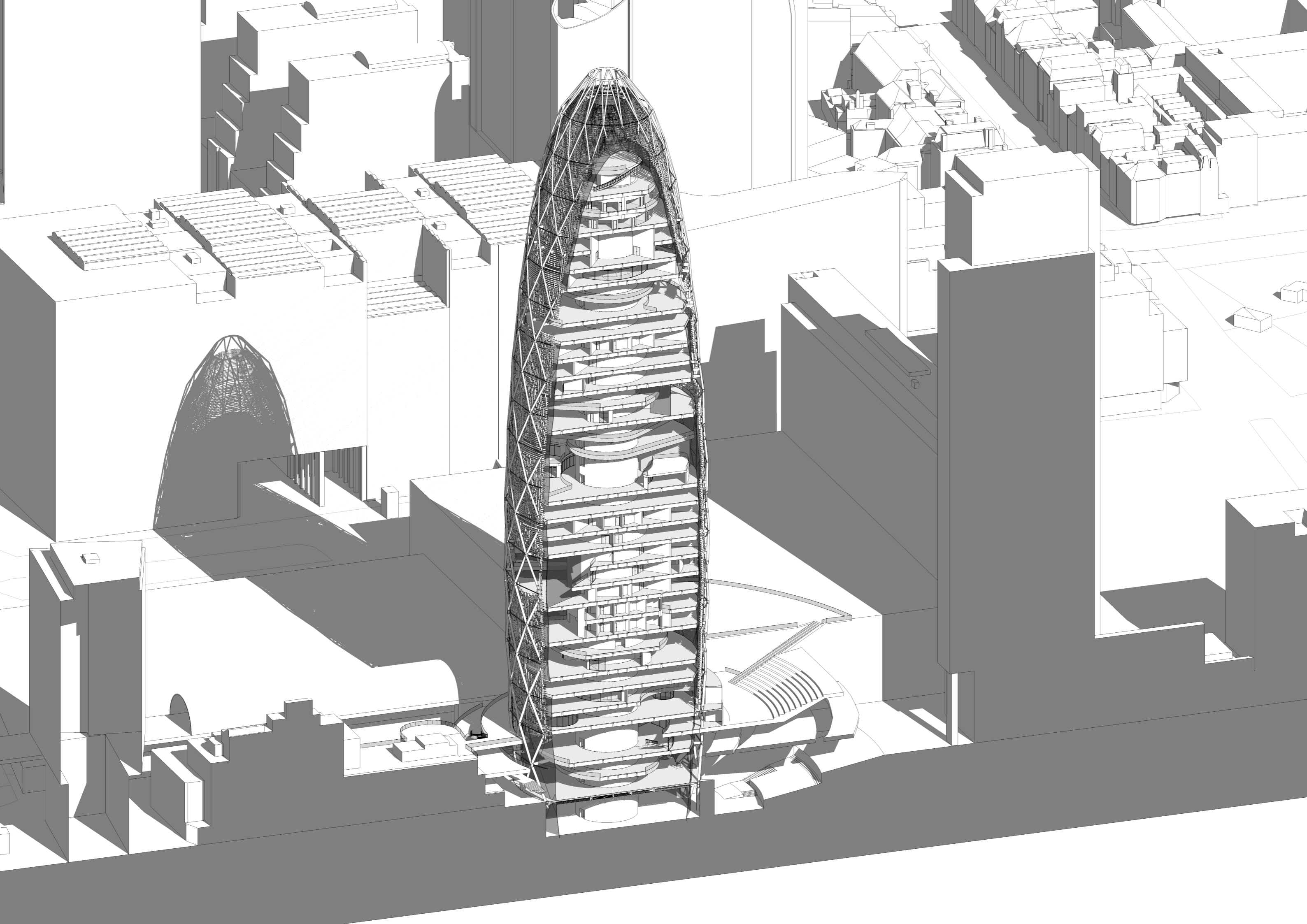


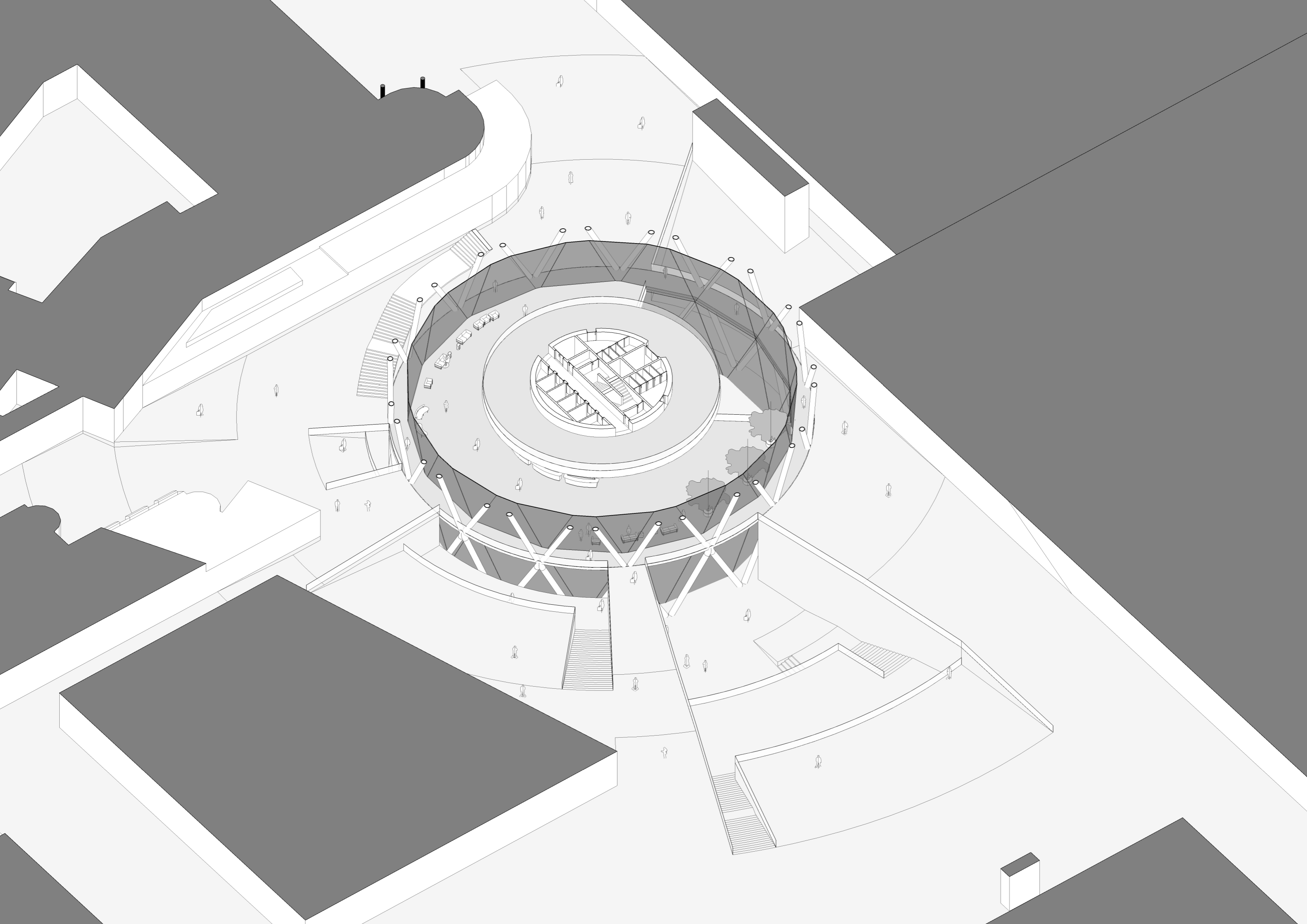


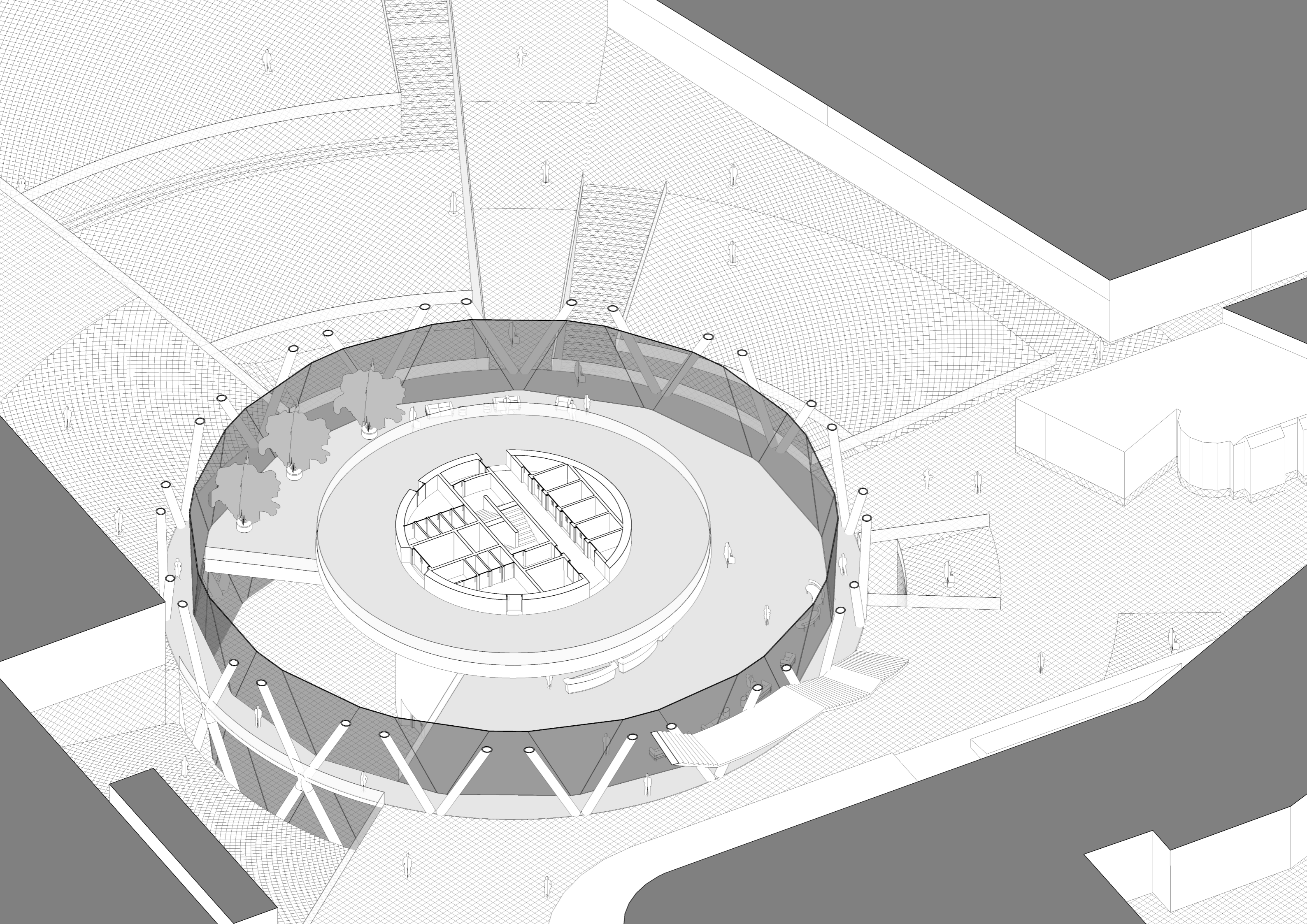


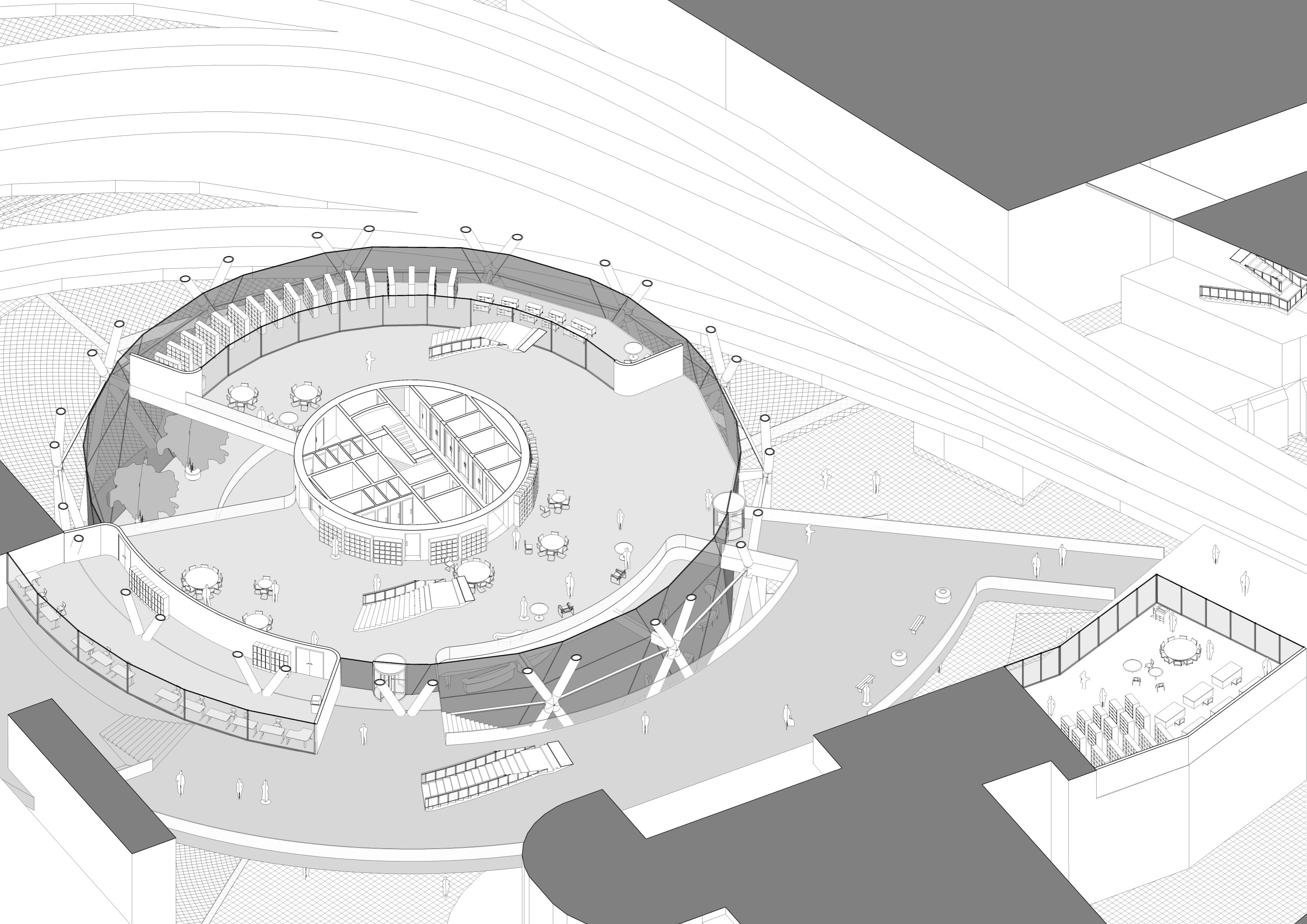


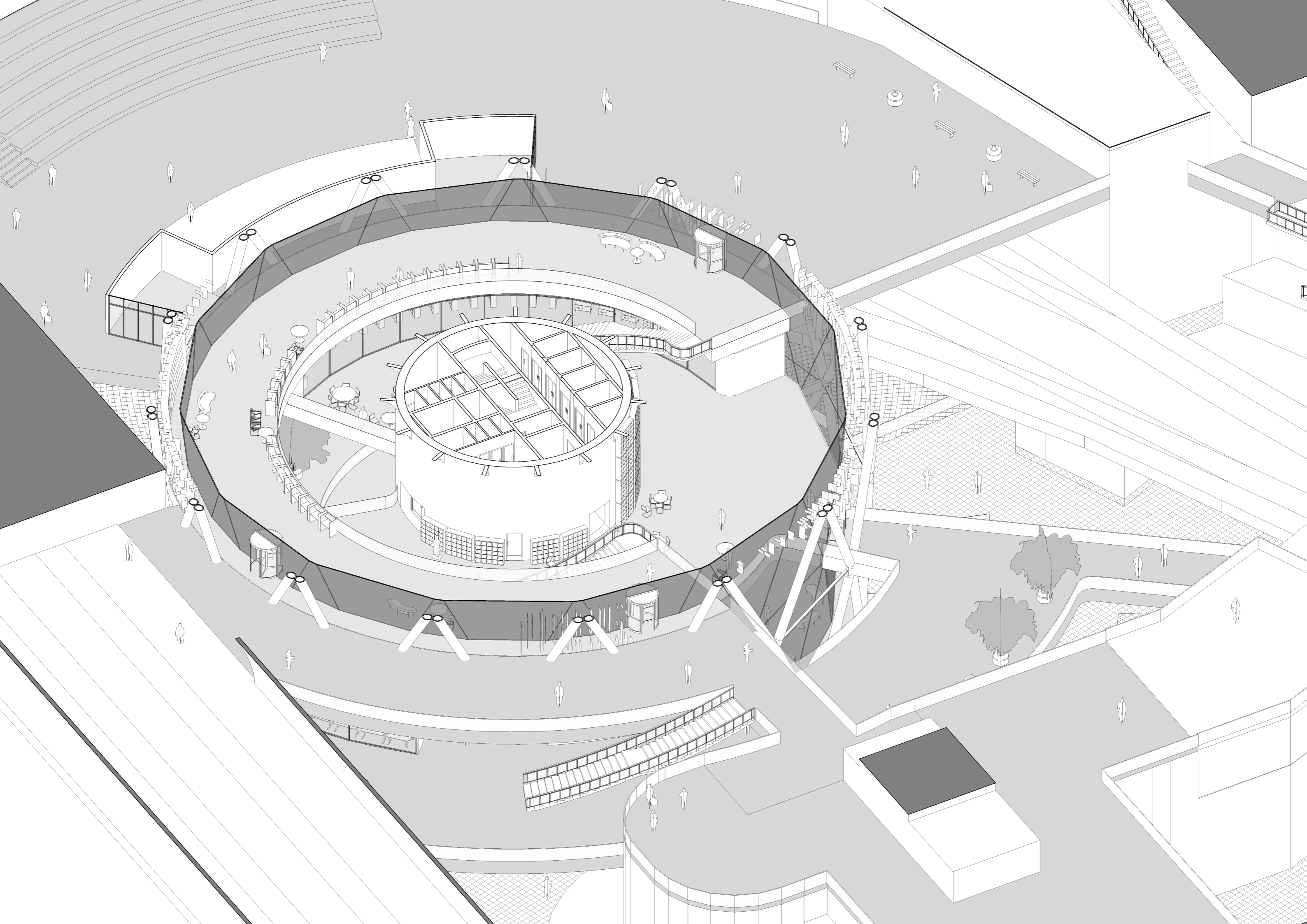


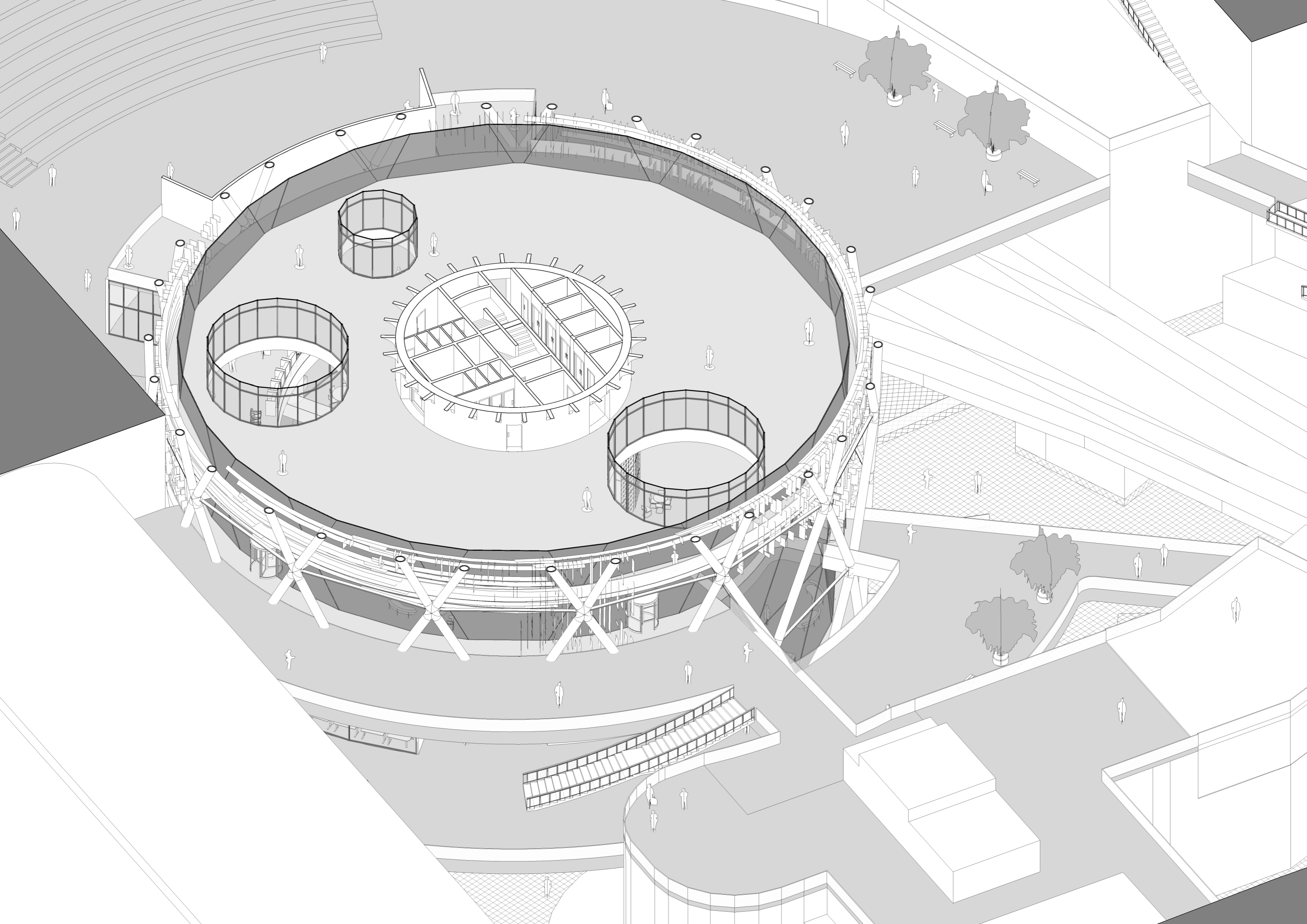


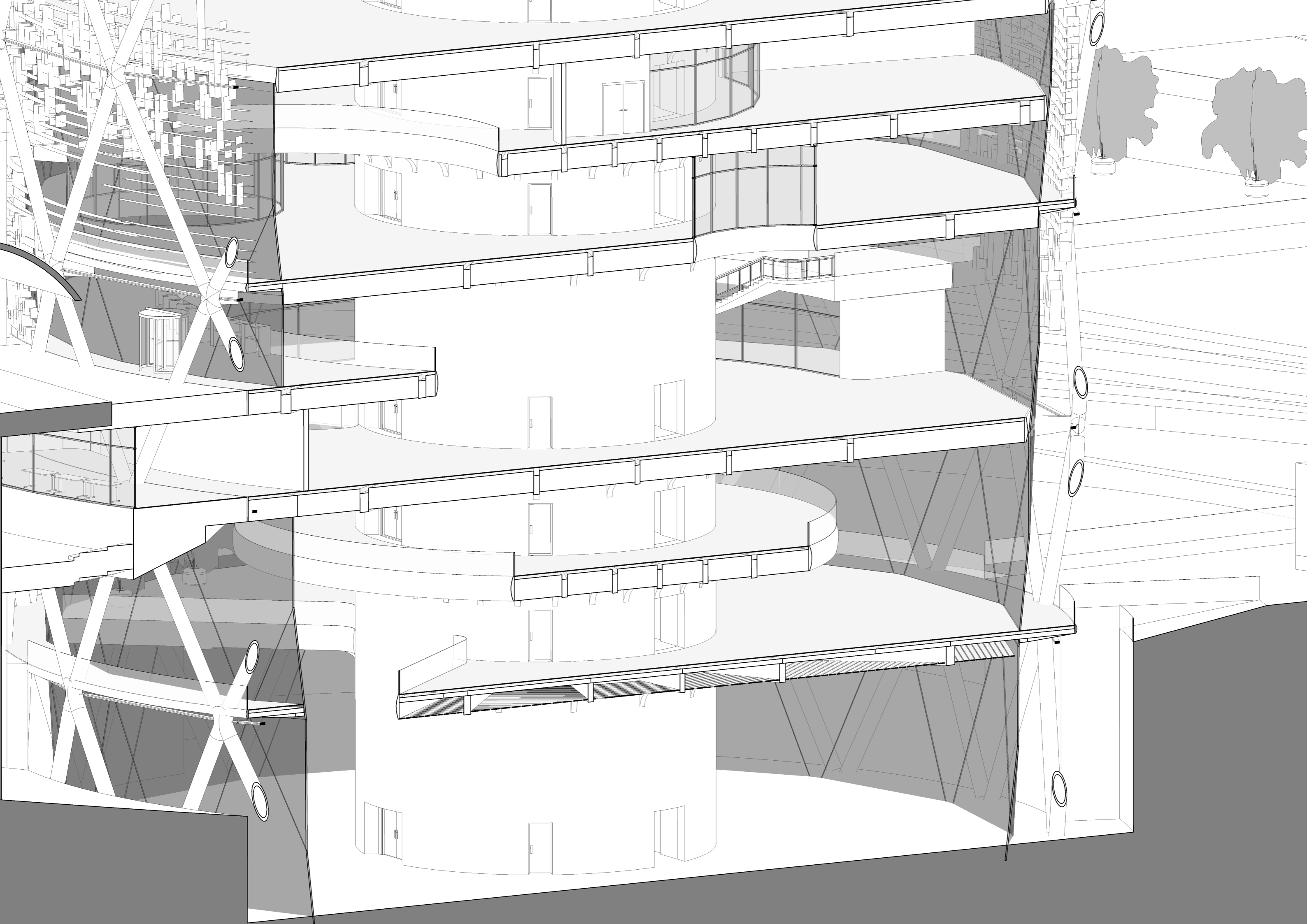


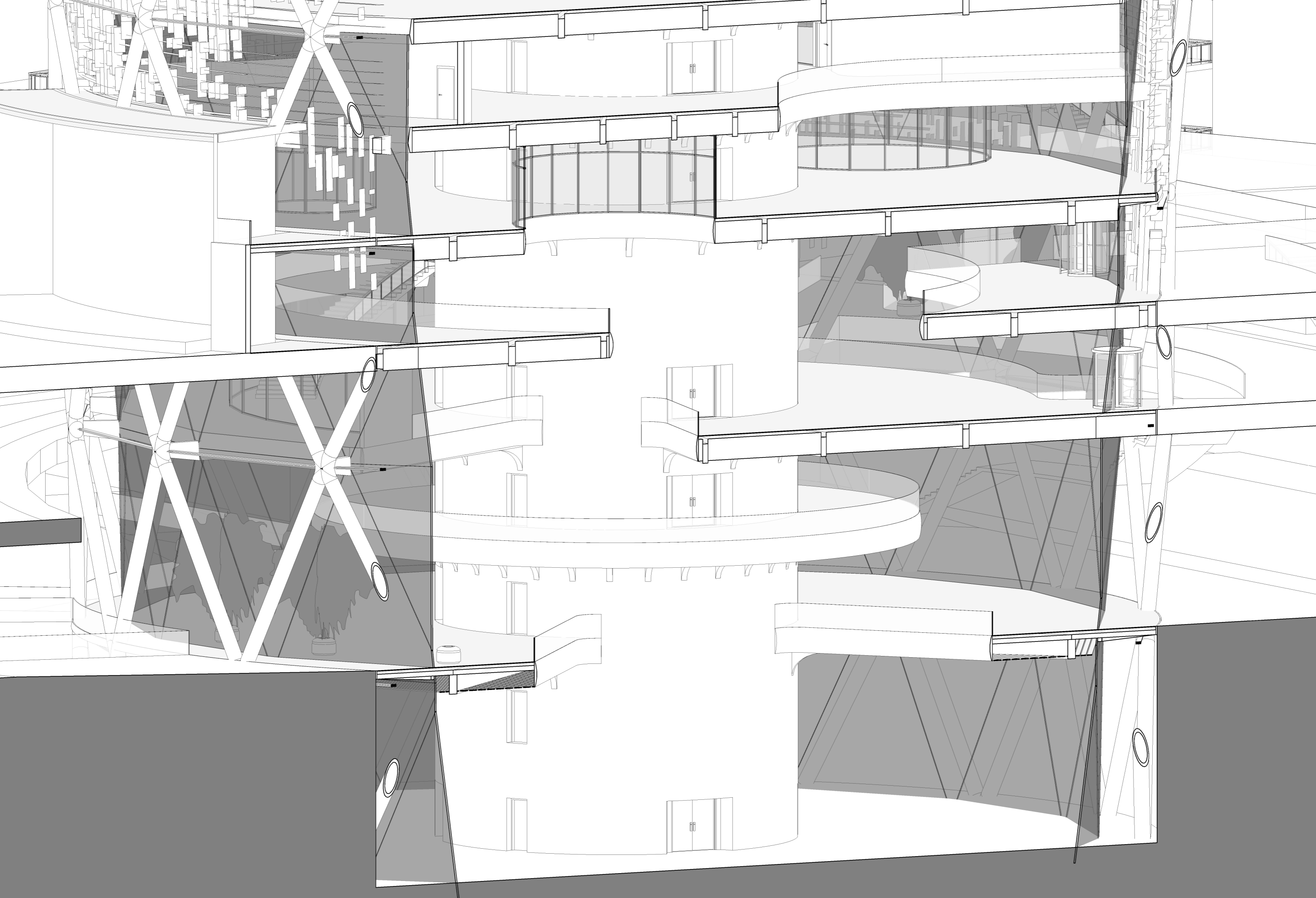


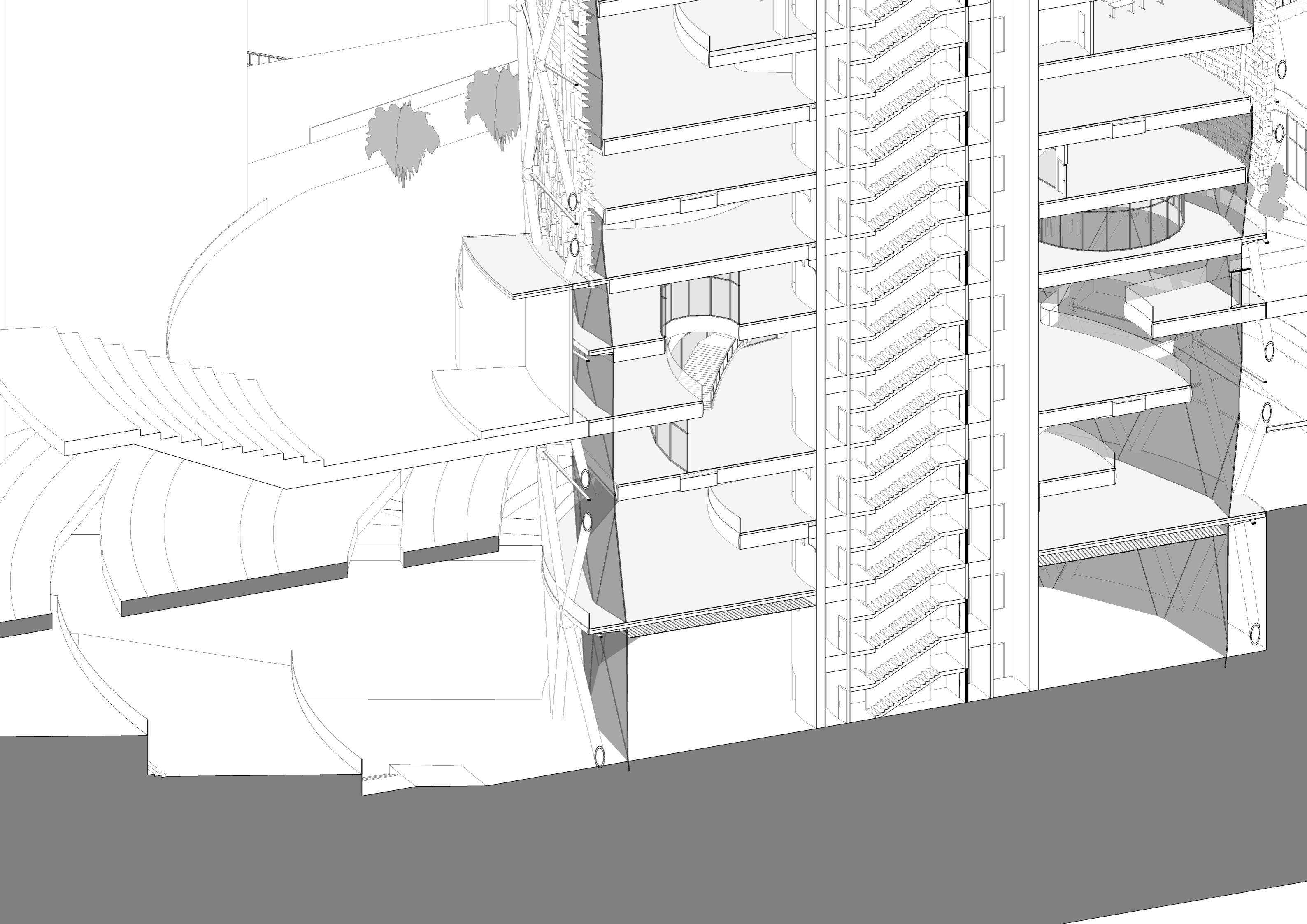


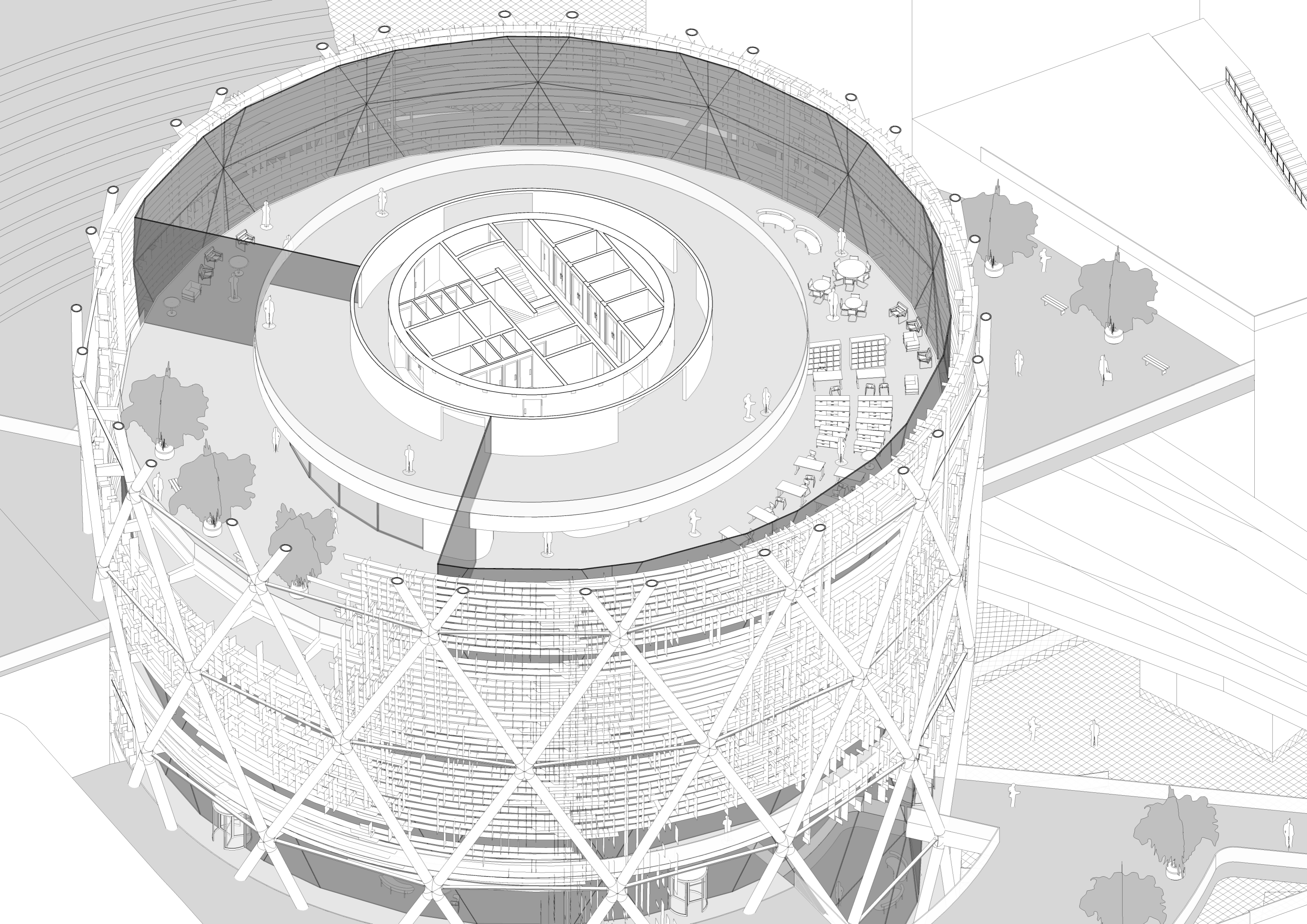




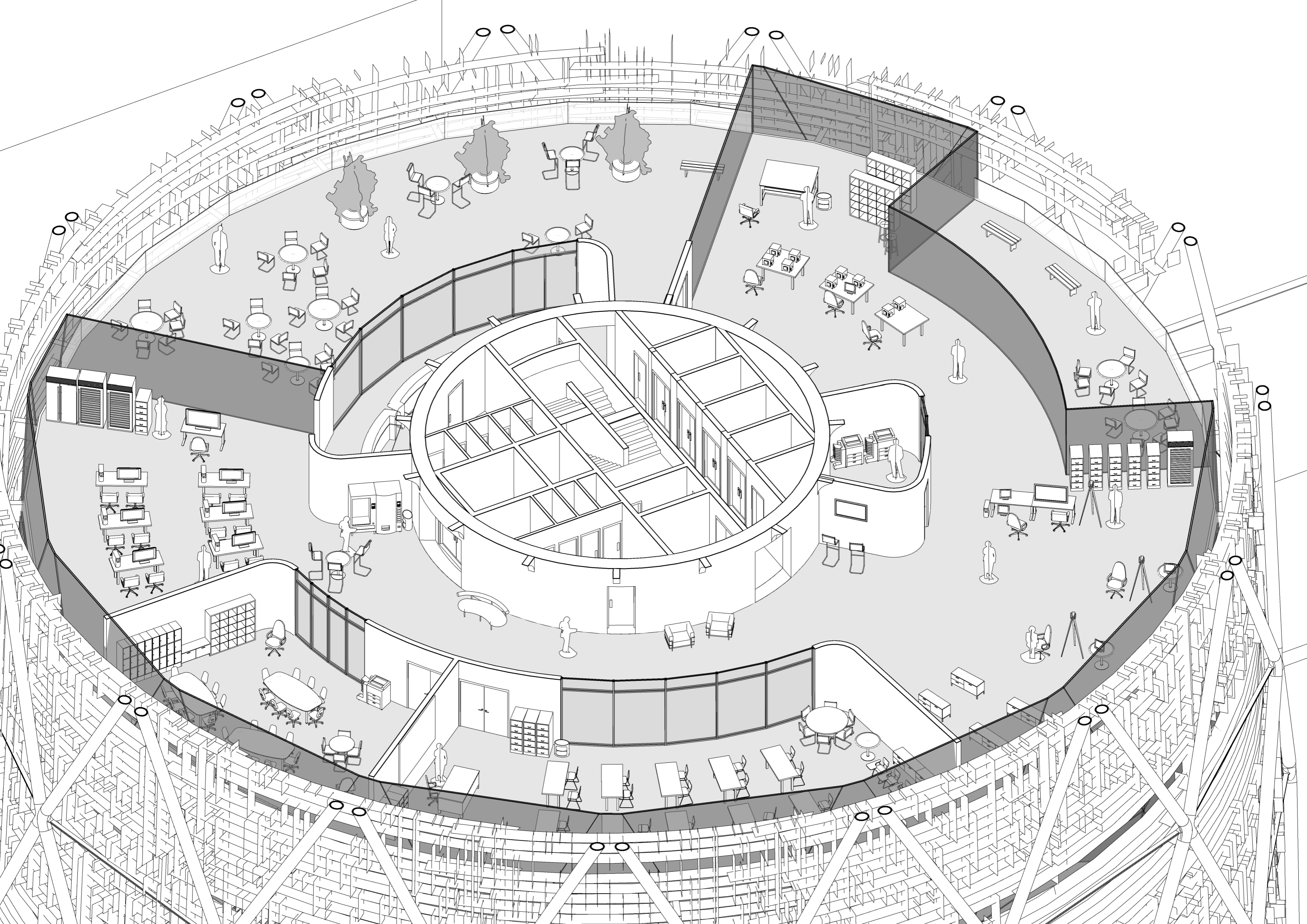




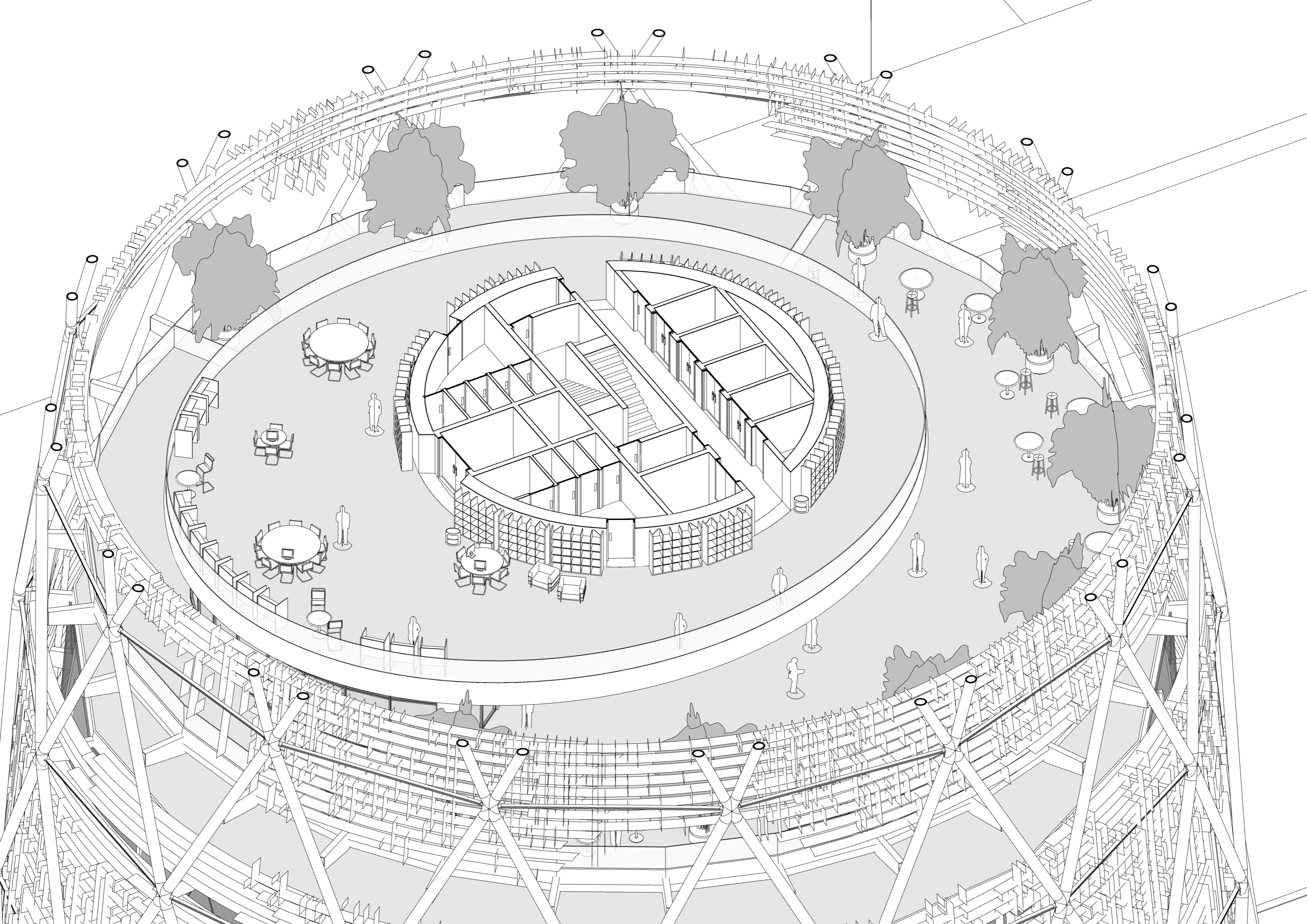




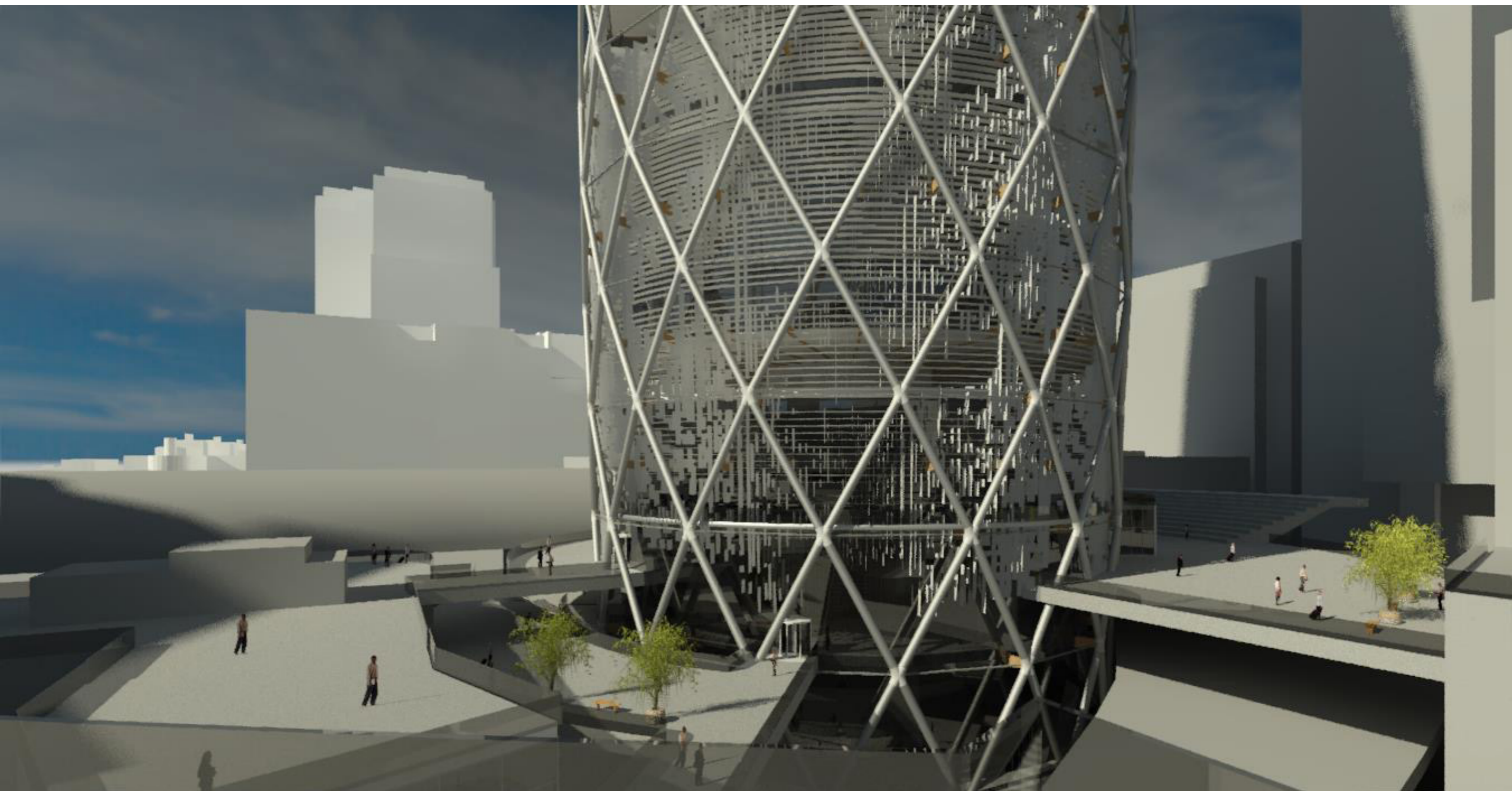


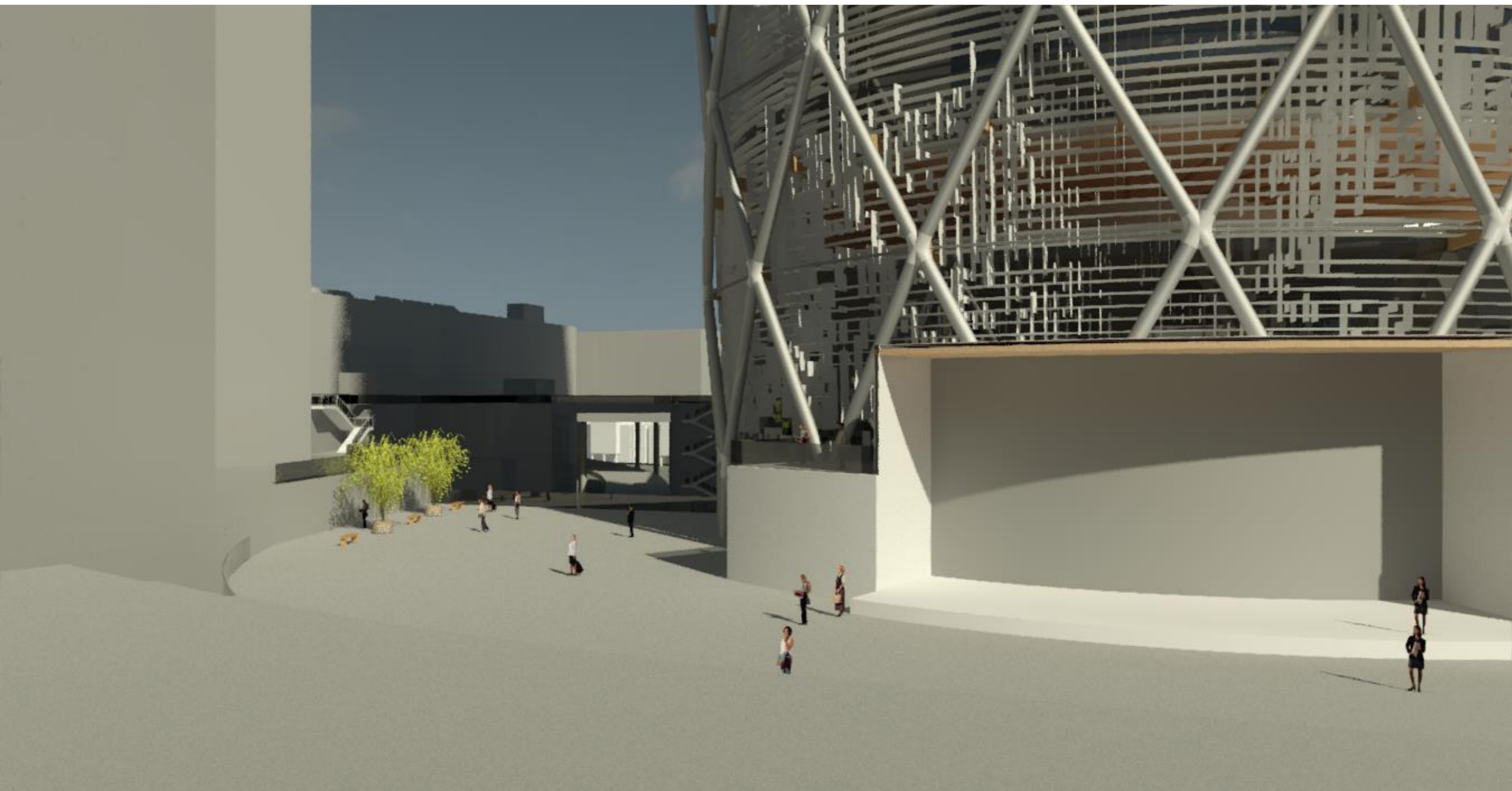


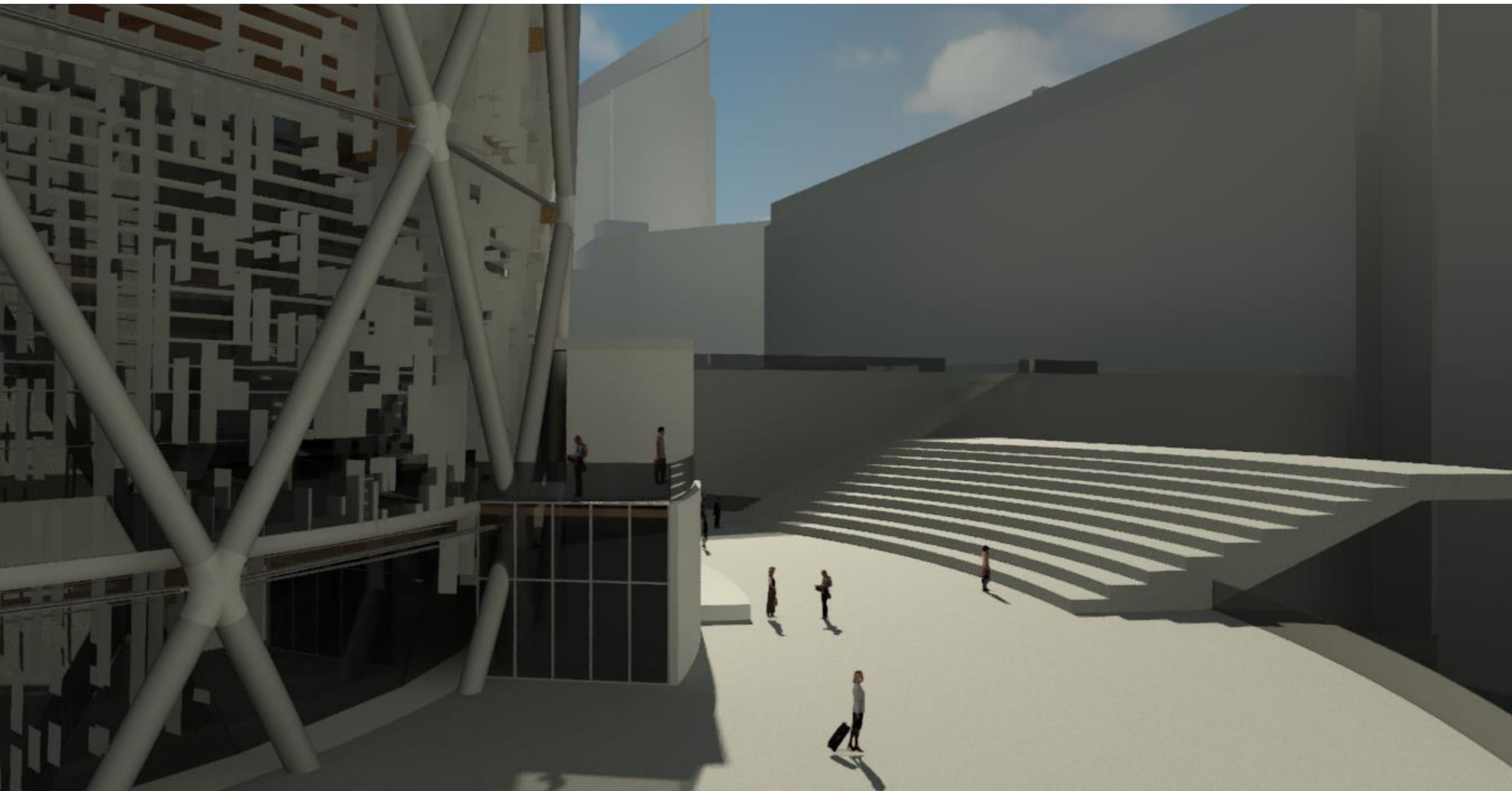












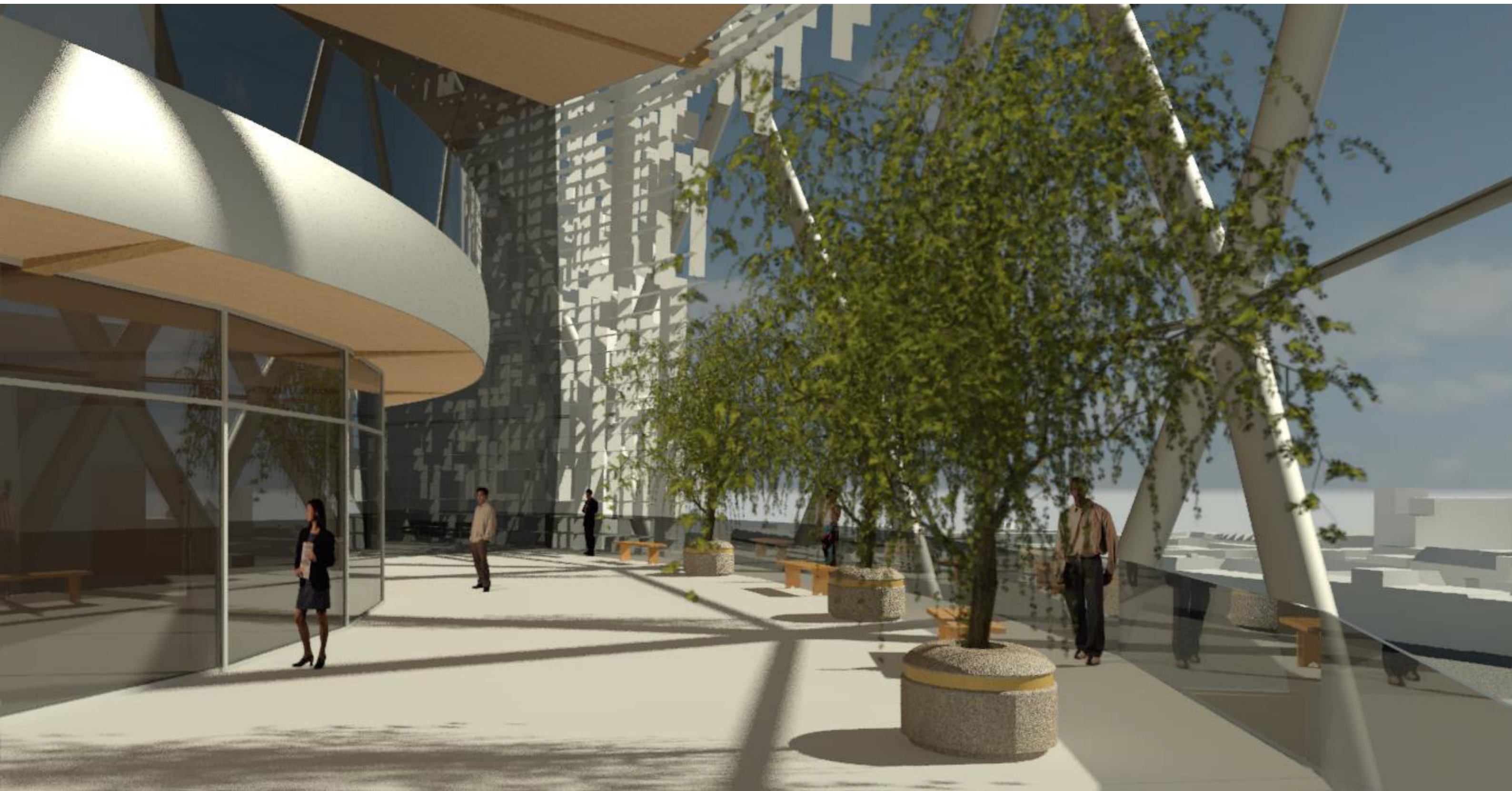


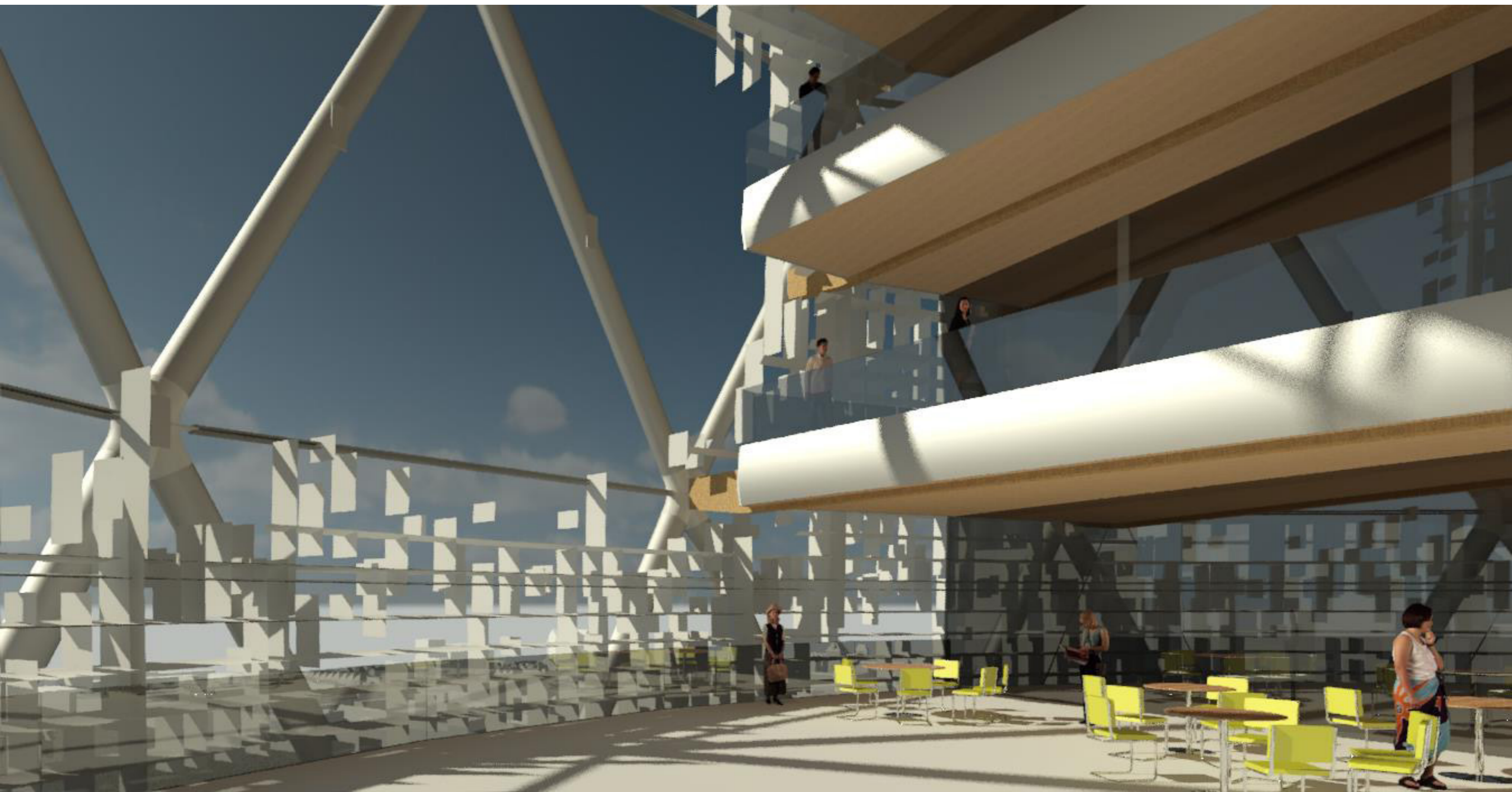




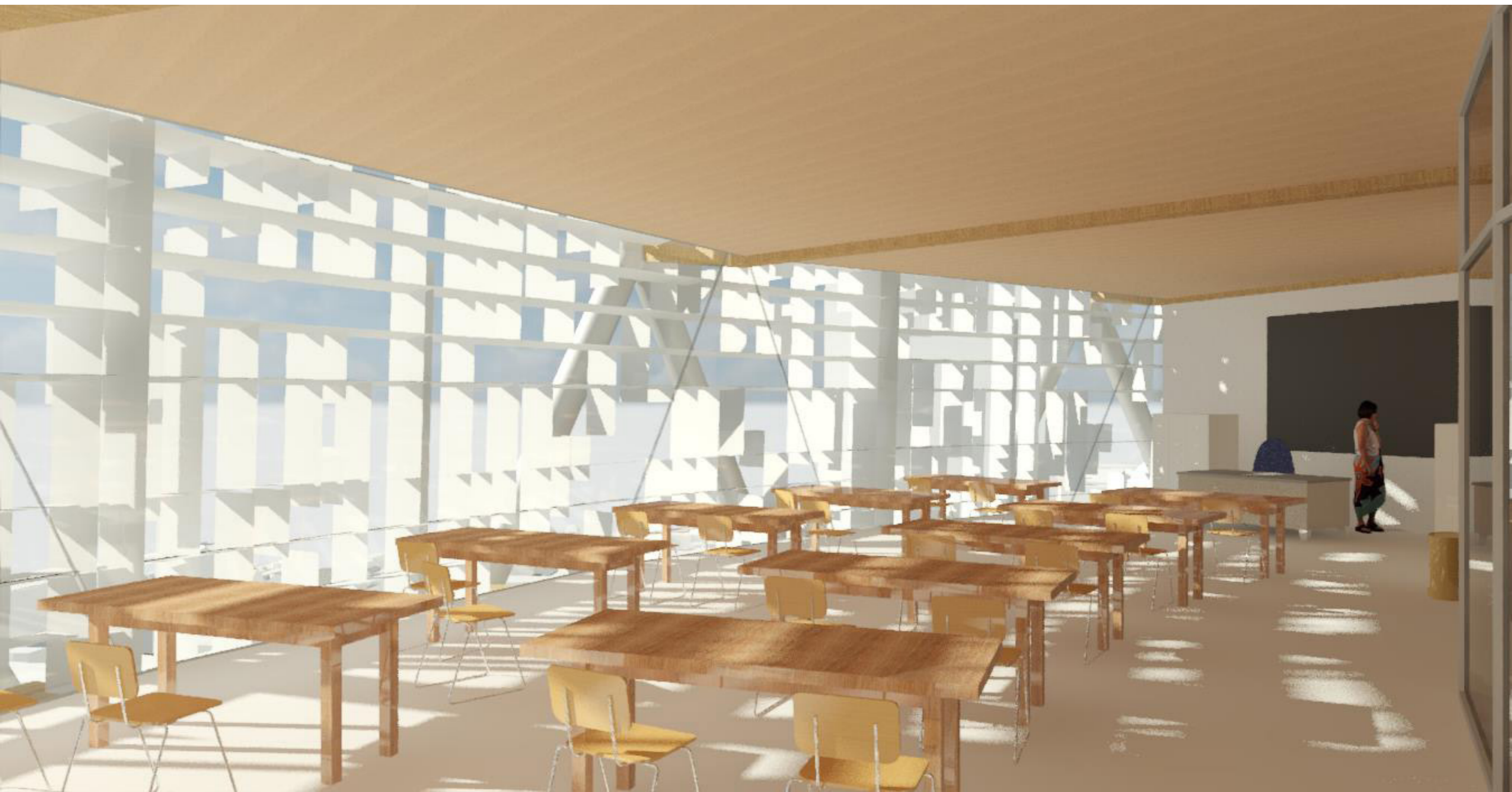


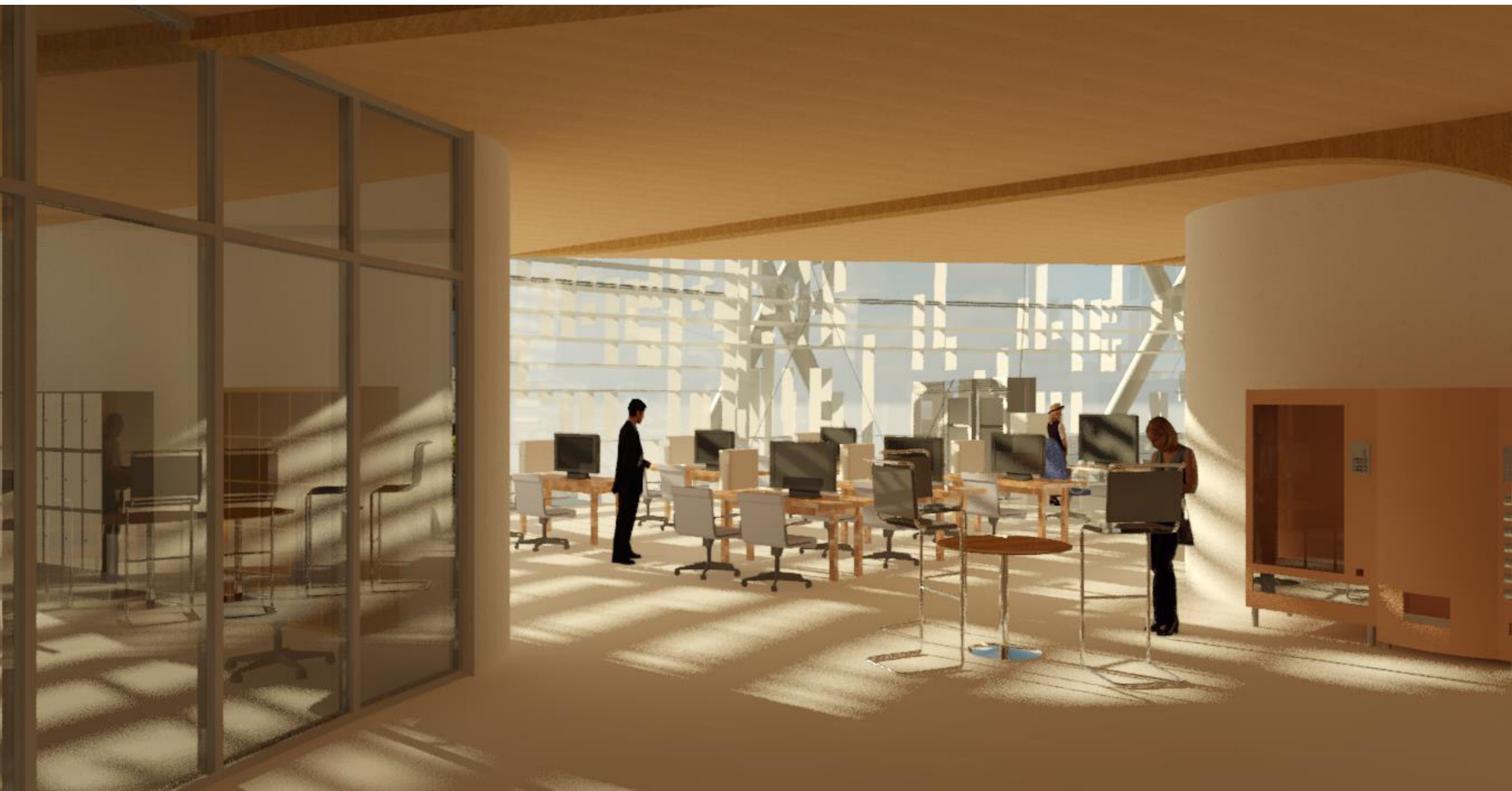
















An architectural rendering of a modern building's interior. The space is characterized by a complex, multi-level ceiling structure with a grid of rectangular panels. Sunlight filters through the ceiling, creating a pattern of light and shadow on the floor. Several people are depicted in various poses, suggesting a busy, functional environment. The overall aesthetic is clean, minimalist, and futuristic.

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