curtains + couture

"The curtain wall, traditionally an icon of modern architecture, takes its name from curtains, but it seems to be misnamed to begin with. It echoes the what structure does and is a direct translation of it, but it has the opportunity to be autonomous and have a defined form and function. The thesis takes the term curtains seriously and advocates for design specificity in a façade system. Instead of following the linear translation from curtains to curtain wall, the thesis finds applied complexities within the territory of the curtain wall. The curtain wall will be redefined through intersected properties of curtains and couture."

curtains

spatial transformation

+

textile tectonics

+

silhouette transformation

couture

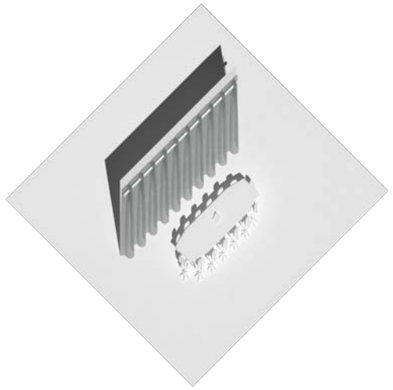
hangs on body

+

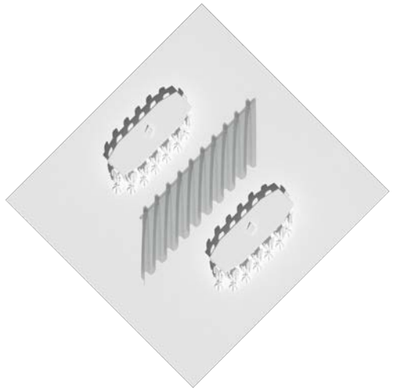
hangs on structure

curtain wall

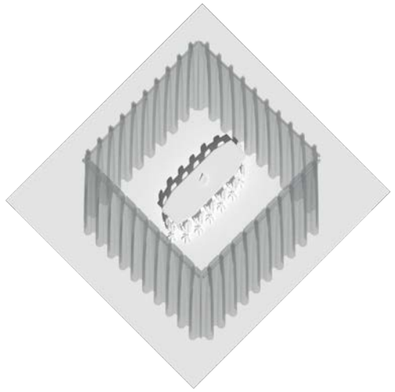
curtains



climatic shield



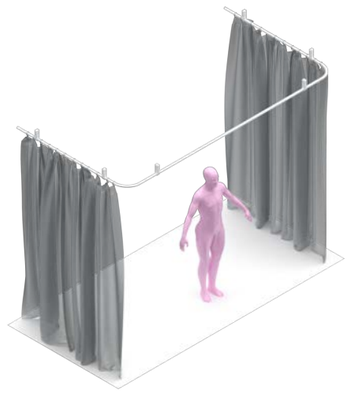
spatial organizer



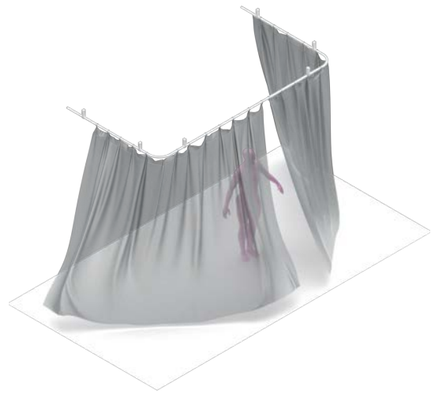
spatial divider

curtain wall

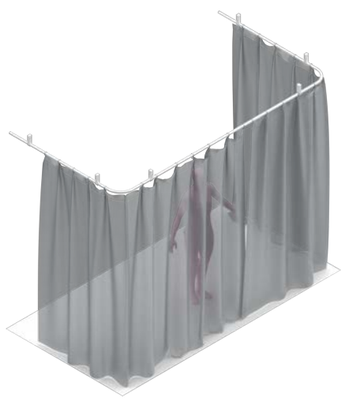
curtain wall



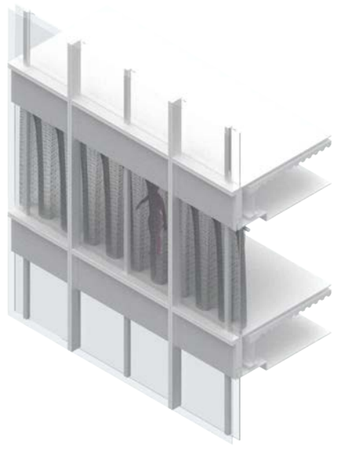
reveal



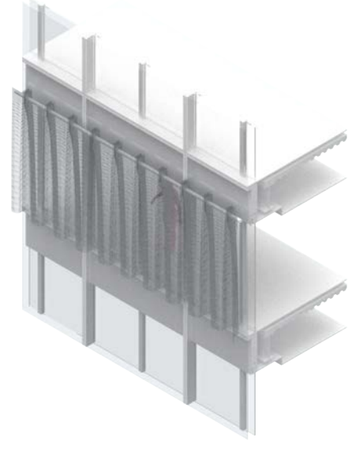
reveal + conceal



conceal

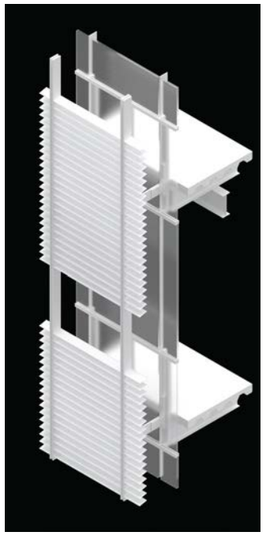


curtain wall & curtain



curtain & curtain wall

curtain wall hangs on structure



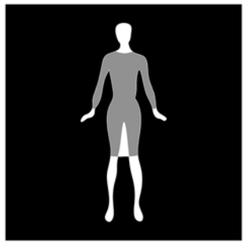
Fix to edge beam

Fix to floor

Fix to wind post

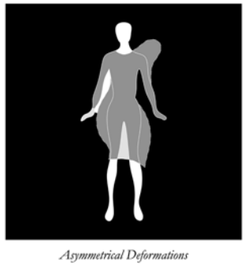
Fix between floor

clothes hang on body

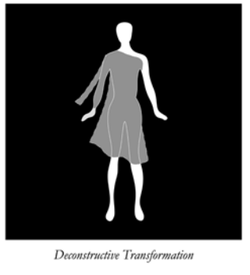


Body Drape

Symmetrical Deformations



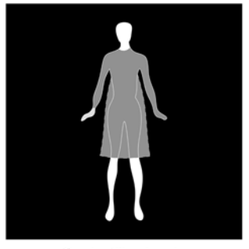
Asymmetrical Deformations



Deconstructive Transformation

Abstract Transformation

Formless Transformation

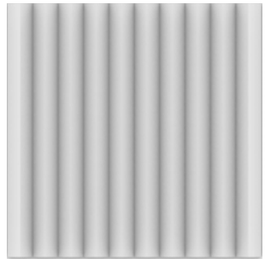


Functional Transformation

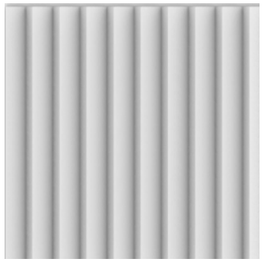
Multi - Functional Transformation

textile tectonics

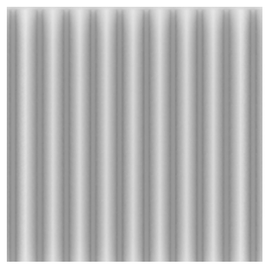
pleat



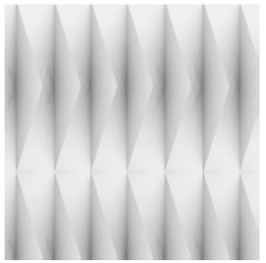
accordian pleats



knife pleats

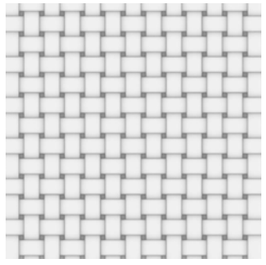


upright pleats



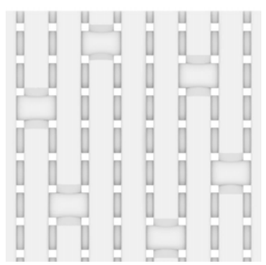
multiple v pleats

weave

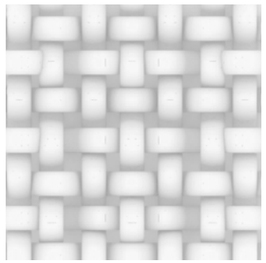


plain weave

twill weave

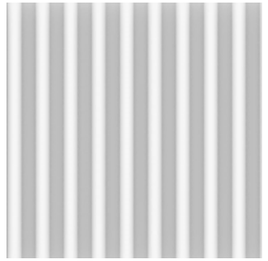


satin weave

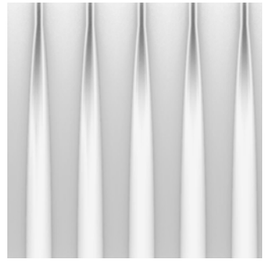


loop weave

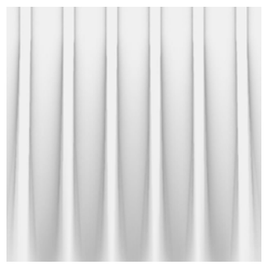
drape



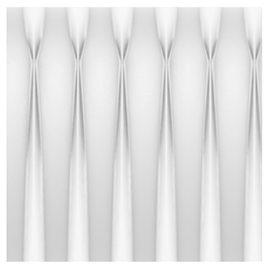
ripple fold drape



tailored pleat drape



inverted pleat drape



pinch pleat drape

curtains

climatic shield

spatial organizer

spatial divider

reveal

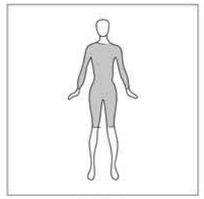
reveal + conceal

conceal

spatial conditions;
manipulated visibility

silhouette transformation

couture

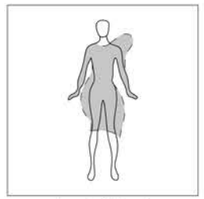


Body Drape

Symmetrical Deformations

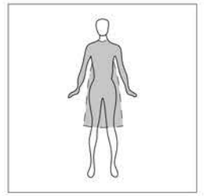
Abstract Transformation

Formless Transformation



Asymmetrical Deformations

Deconstructive Transformation



Functional Transformation

Multi - Functional Transformation

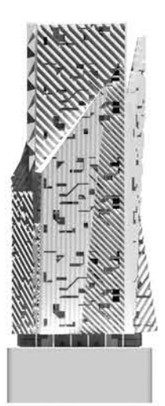
textile tectonics

pleat

weave

drape

curtain wall



object tectonics

interconnecting

overlapping

substraction

fragmentation

heterogeneity

deconstruction

wrapping

blurring

folding

building tectonics

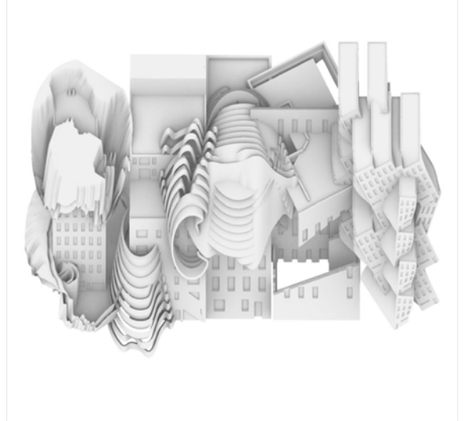
wrapping

deconstruction

aggregation

flouncing

draping



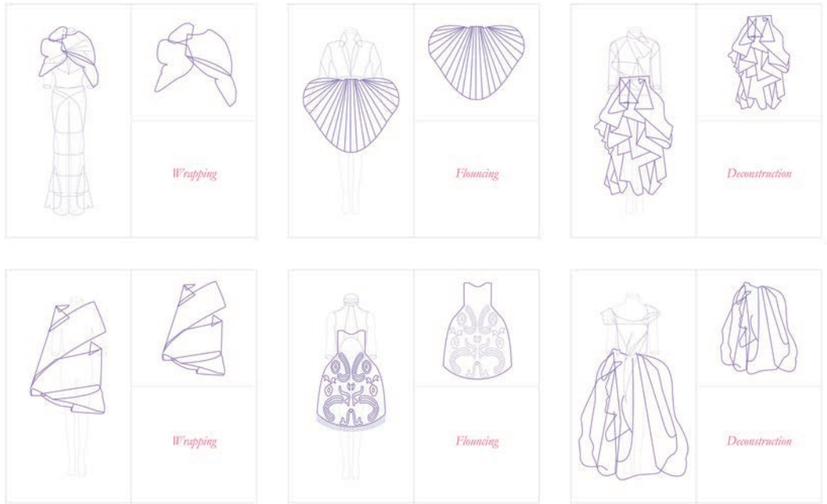
combined construct

block tectonics

flouncing

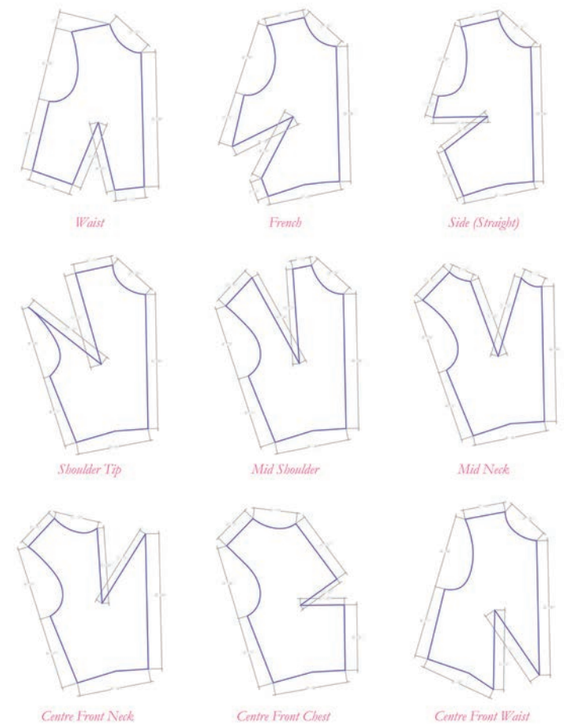
deconstruction

draping

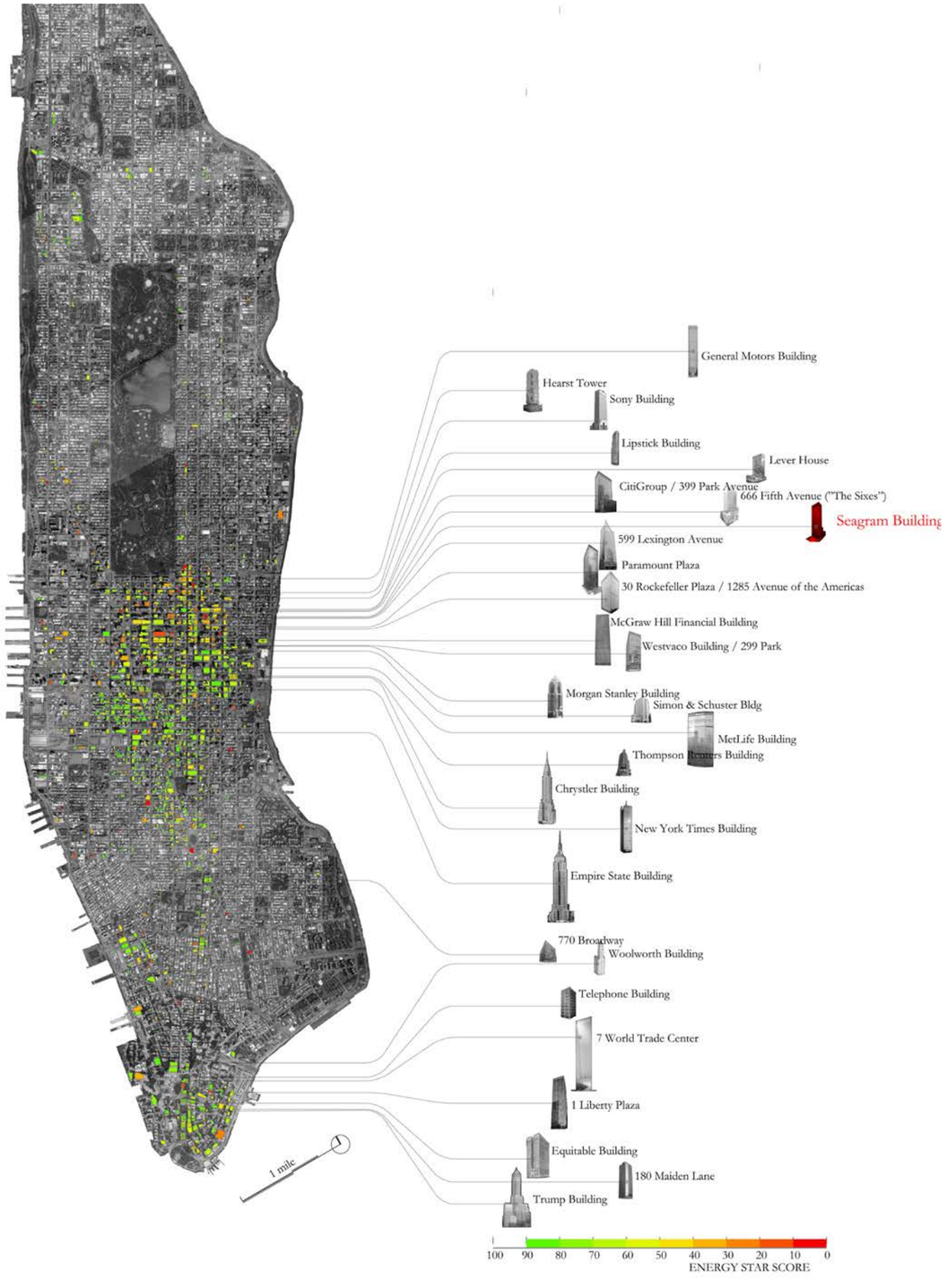


couture analysis

silhouette analysis



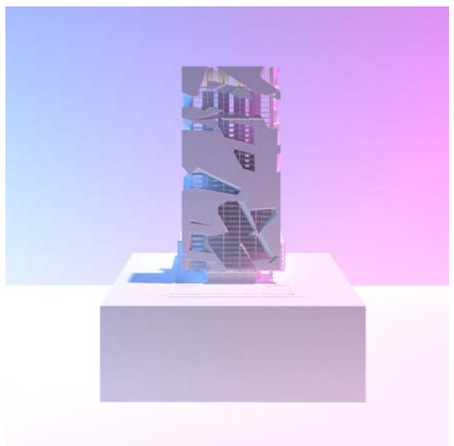
pattern making



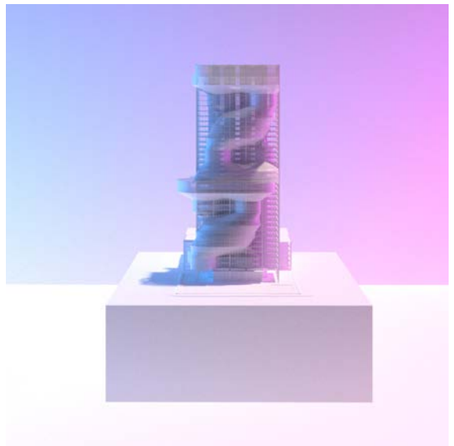
Seagram Building, Mies Van Der Rohe

Energy Star Score 3 / 100

silhouette tranformation

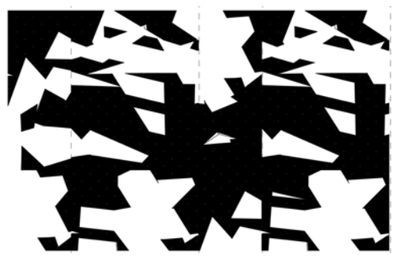


deconstruction



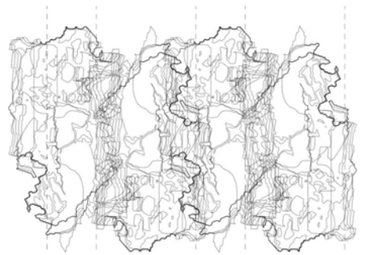
flouncing

draping



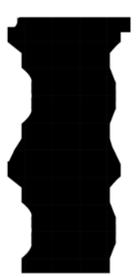
unfolded elevation

unfolded elevation



unfolded elevation

body silhouette

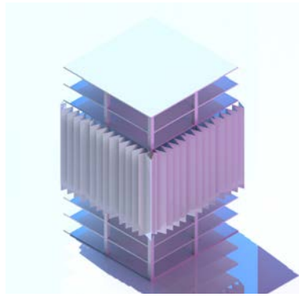


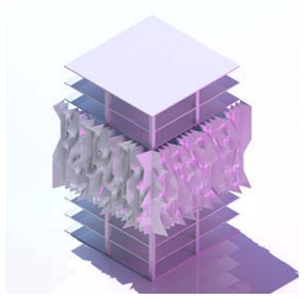
body silhouette

body silhouette

textile cladding

pleat



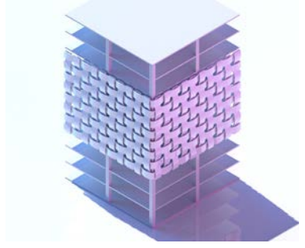


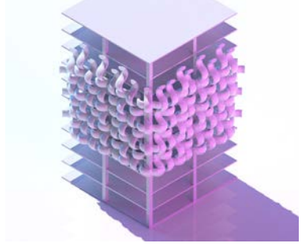
diffusion

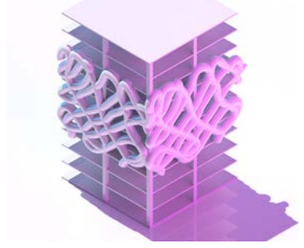
axiality

specularity

weave





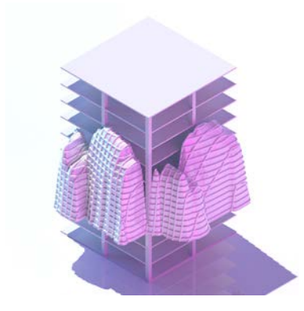


cellularity

enclosure

tactality

drape

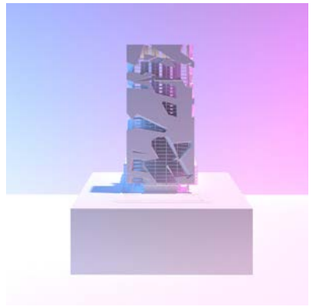


lightness

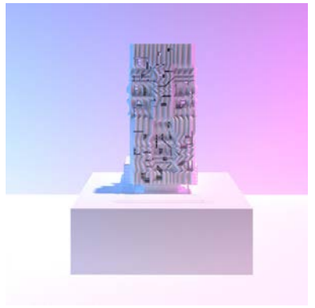
specularity

amorphousness

silhouette tranformation



Deconstructed



Pleated

Flouncing

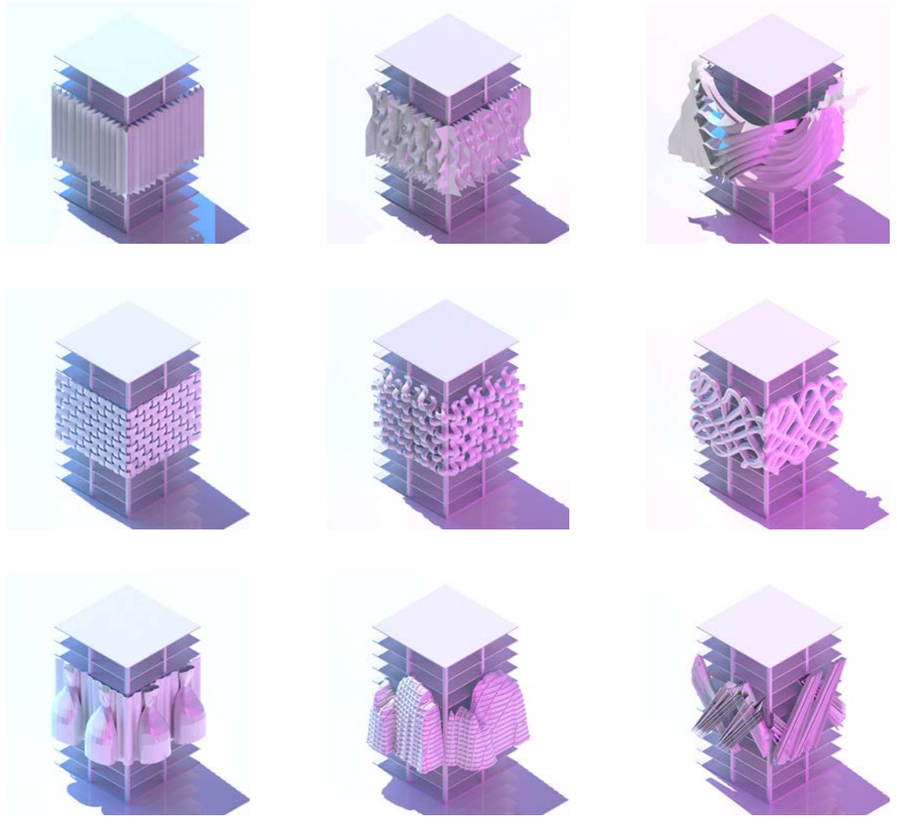
Draping

Draping

Composite Weave

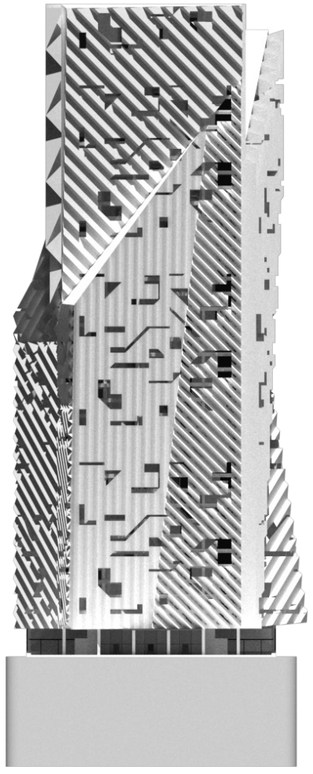
+

textile tectonics

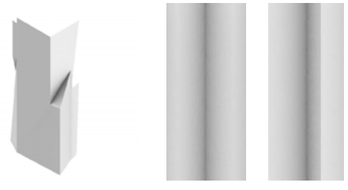


pleat, weave, drape

Proposal 1



deconstructive transformation



pleat - accordian + knife

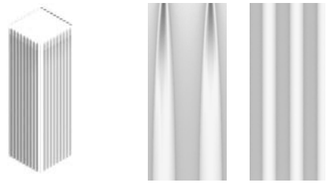
Proposal 2

asymmetrical deformation

weave - twill + satin

Proposal 3

functional transformation



drape - tailored pleat + ripple fold

relate to environment

produce atmospheres

Inhabitable spaces

Interstitial spaces

topological surface geo

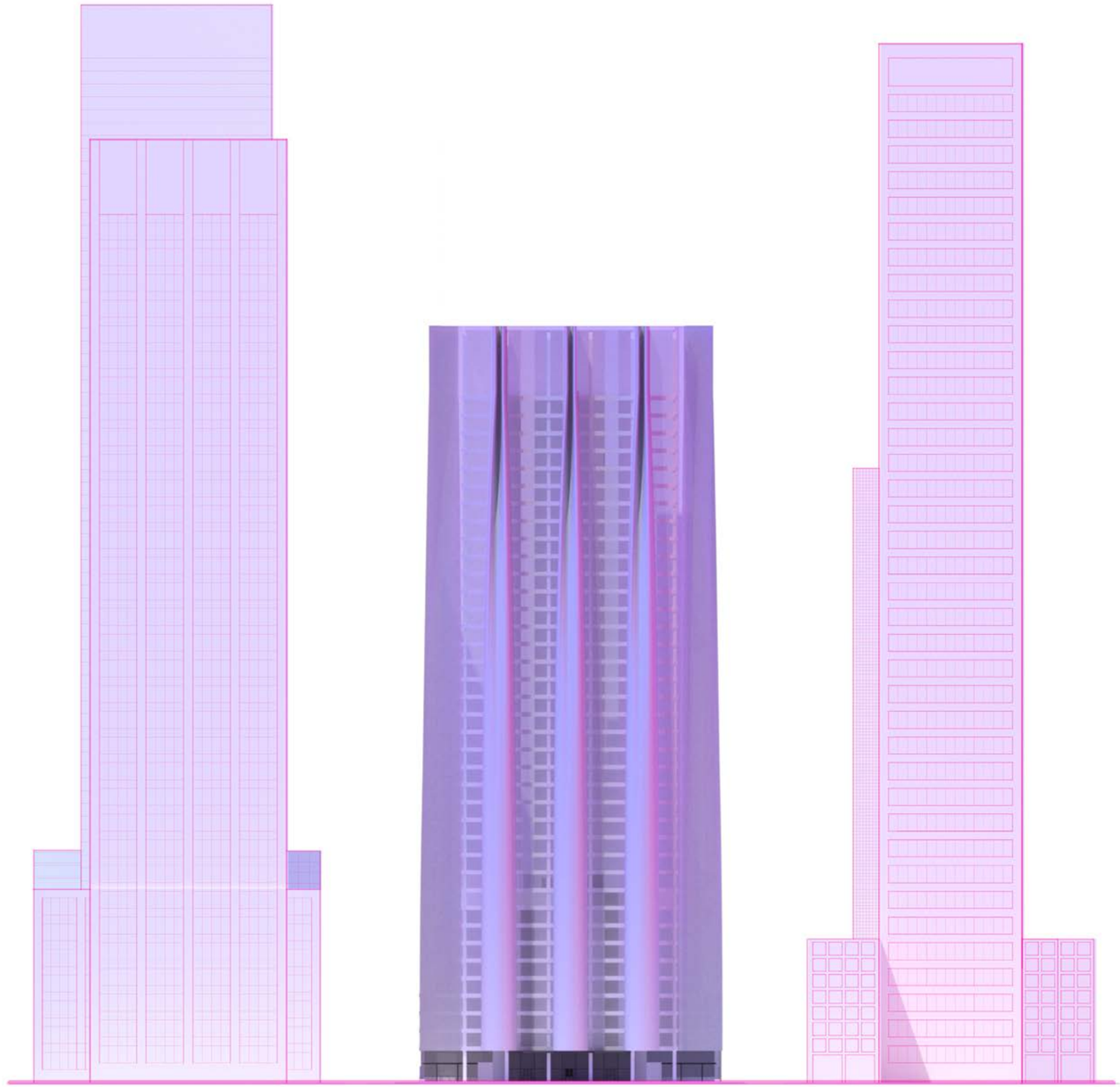
Pattern & Textures

Passive Shading

Material Agency

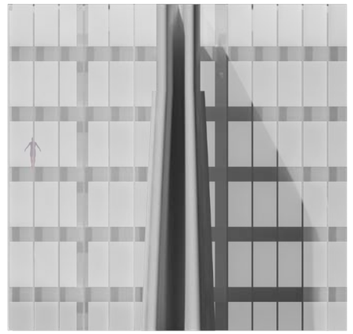
Material Effects

Dynamic, Kinetic

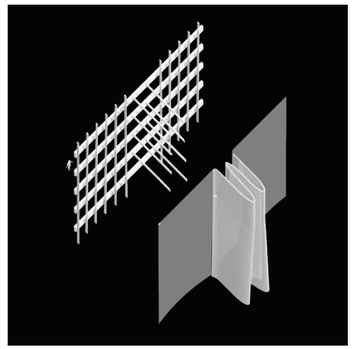


Drape + Functional Transformation

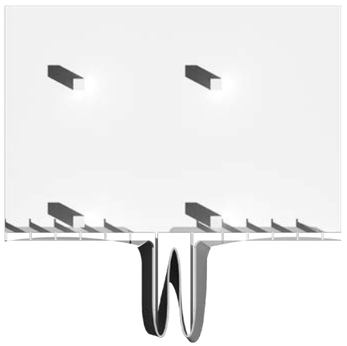
sectional perspective



elevation



exploded facade axonometric

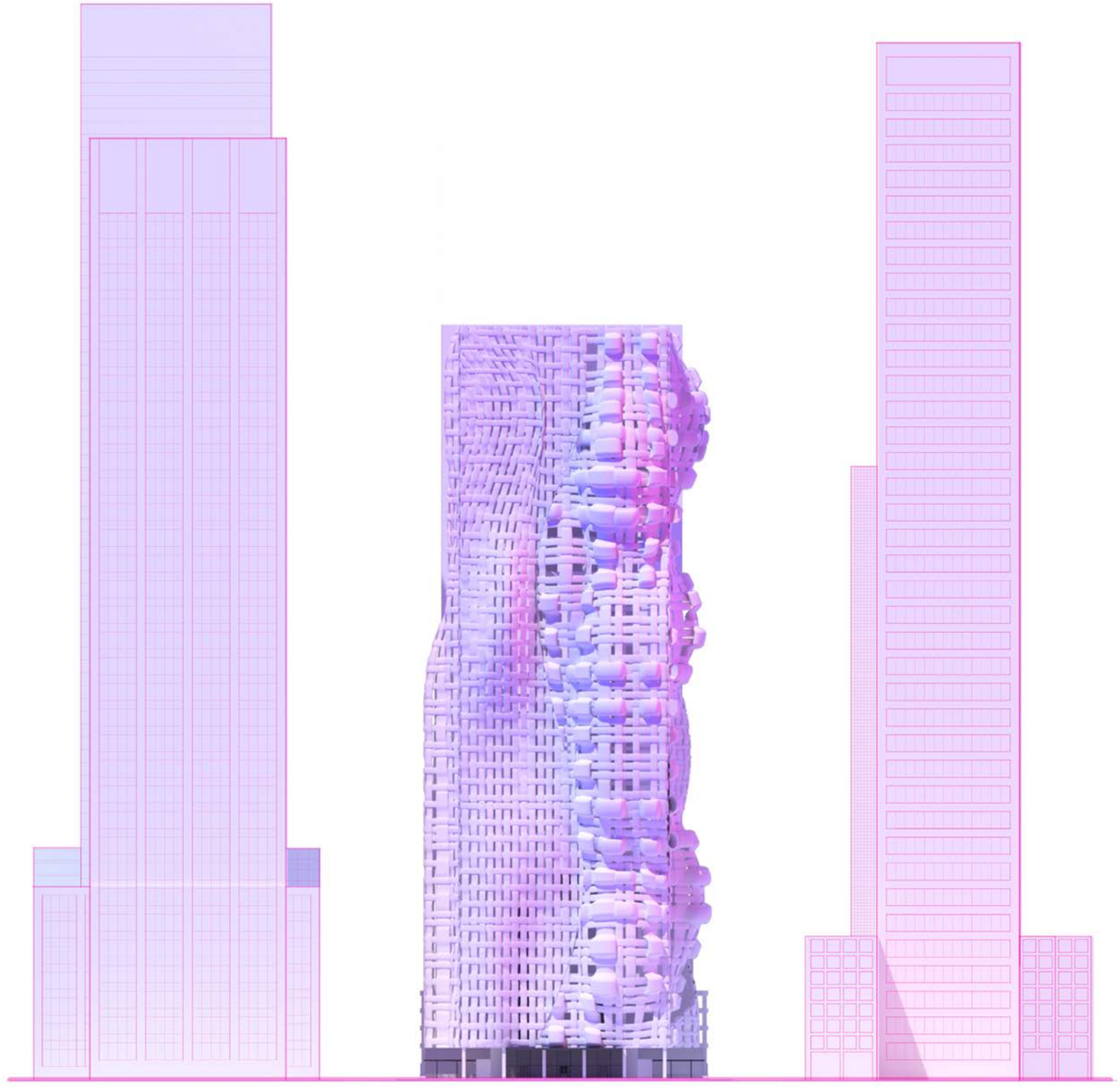


plan

axonometric

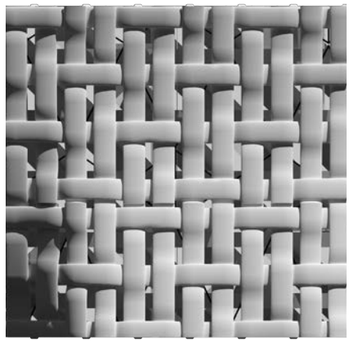
section

Chunk Model

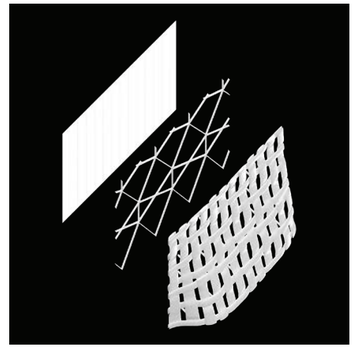


Weave + Asymmetrical Deformation

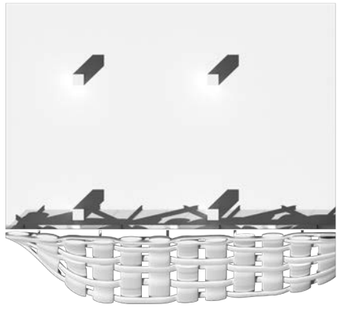
sectional perspective



elevation



exploded facade axonometric

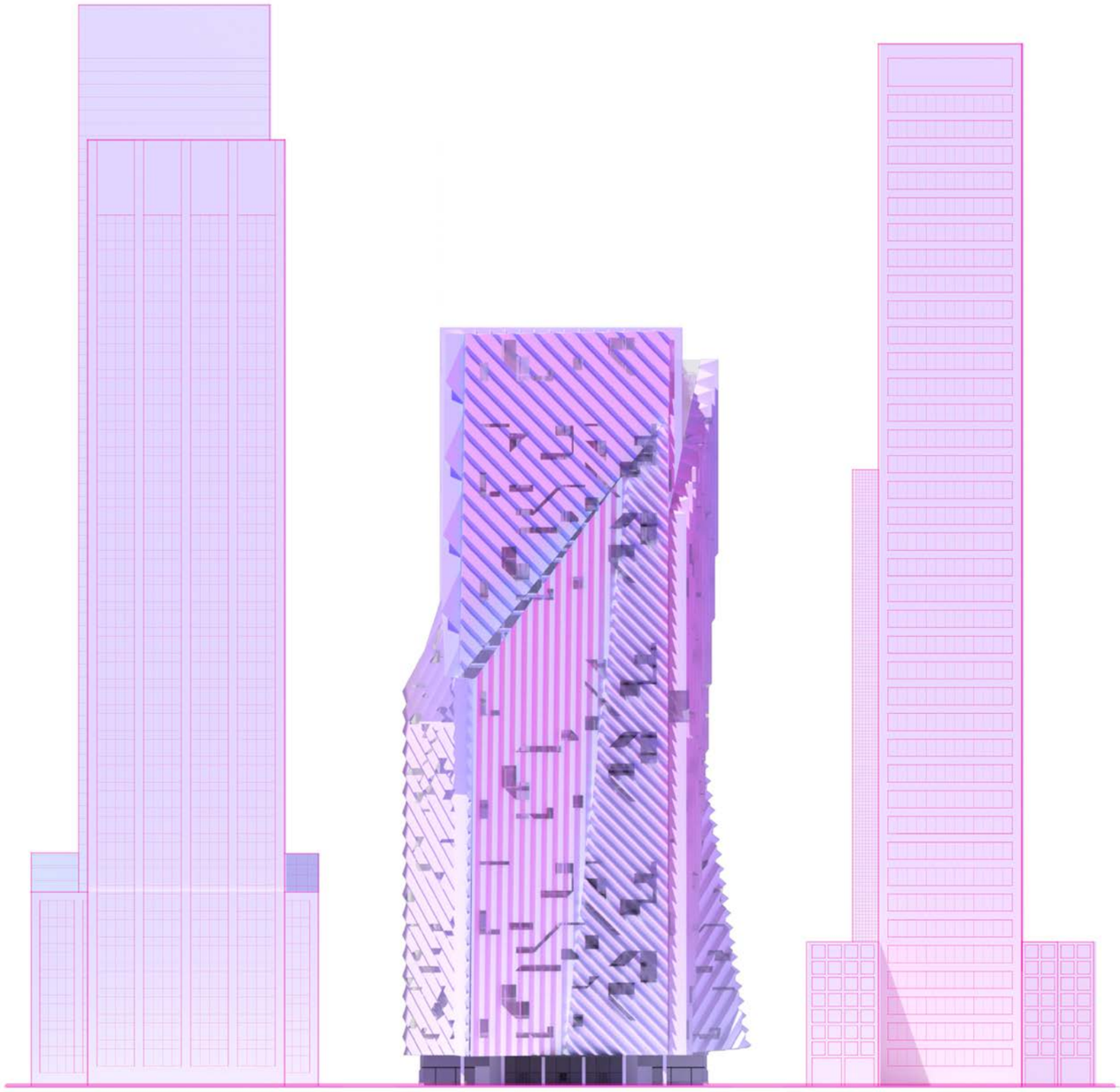


plan

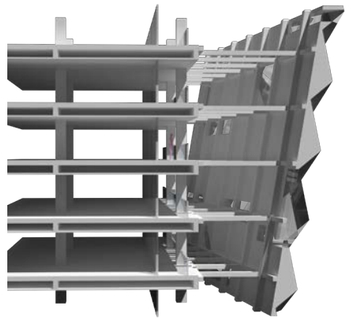
axonometric

section

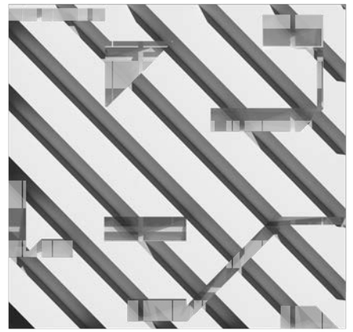
Chunk Model



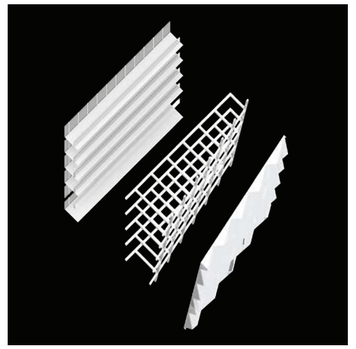
Pleat + Deconstructive Transformation



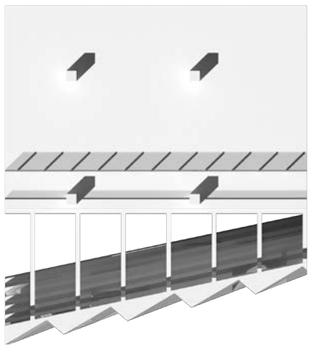
sectional perspective



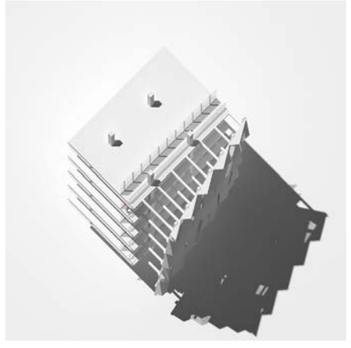
elevation



exploded facade axonometric



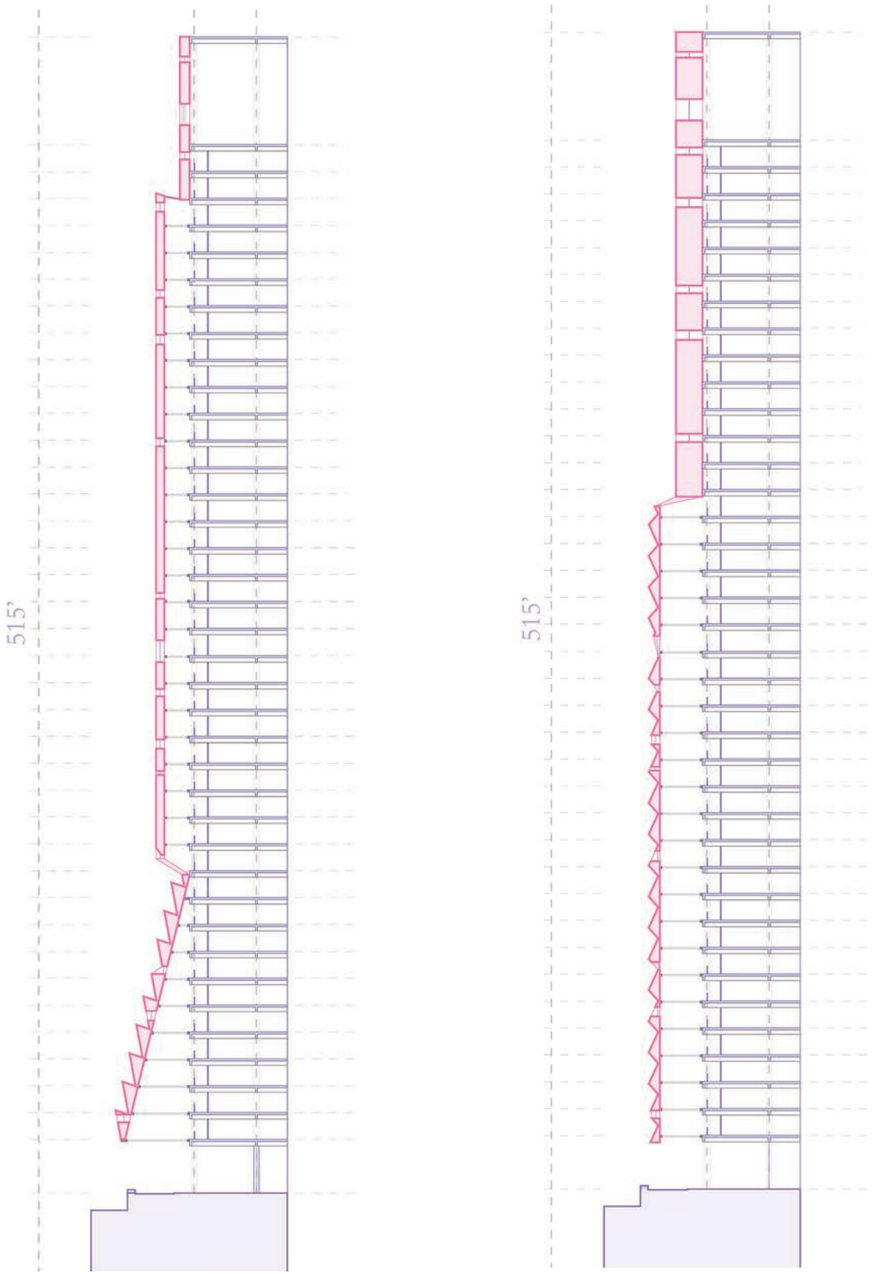
plan



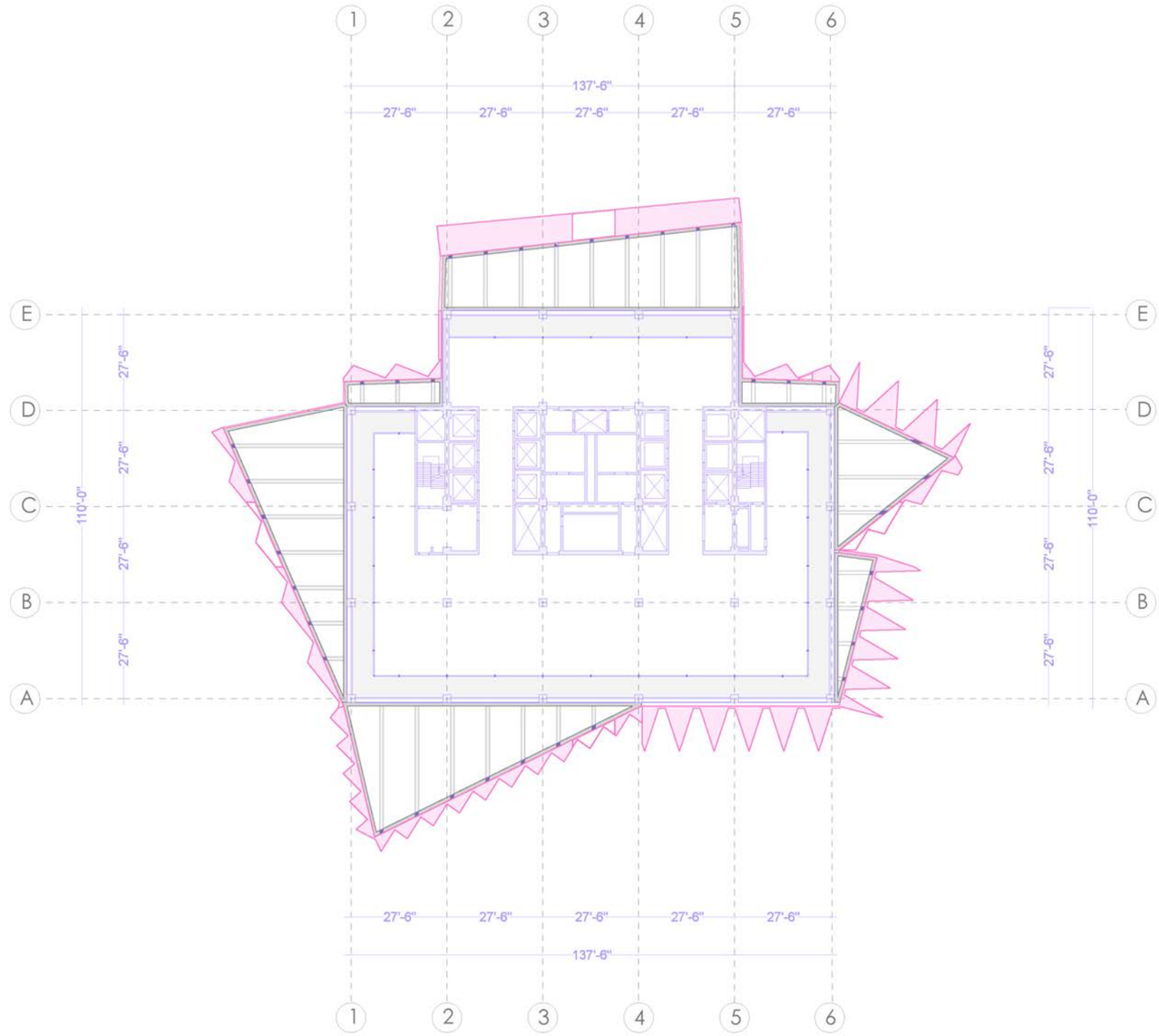
axonometric

section

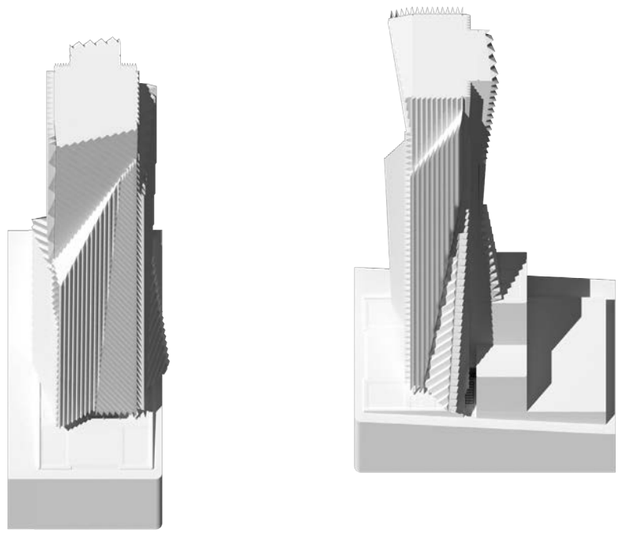
Chunk Model



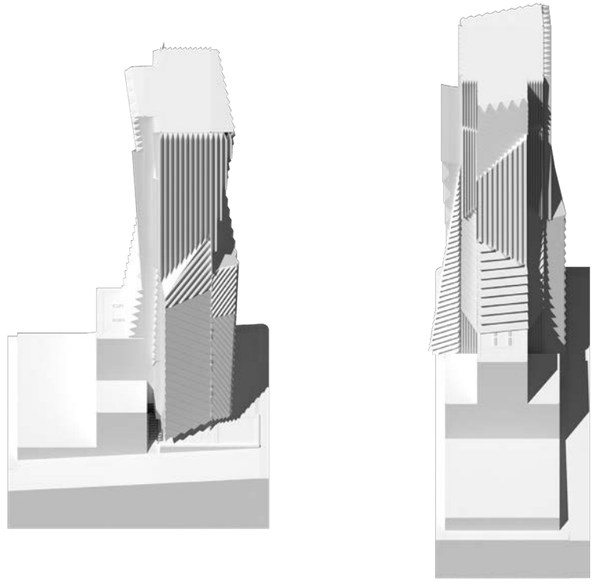
Skin Sections



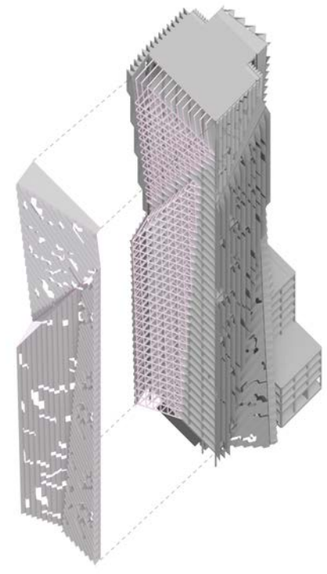
Floor Plan



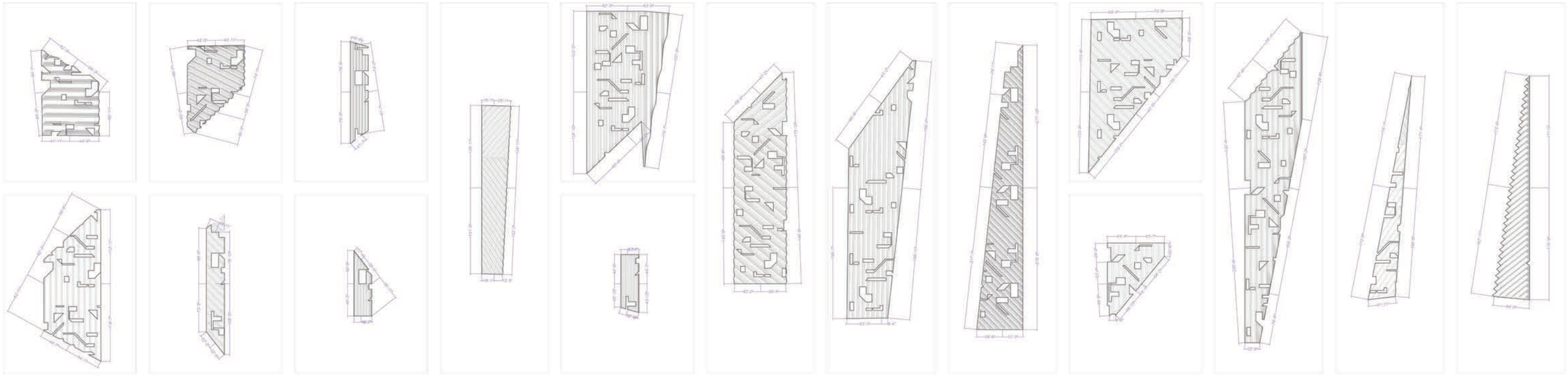
Front Elevation (West) and Side Elevation (South)

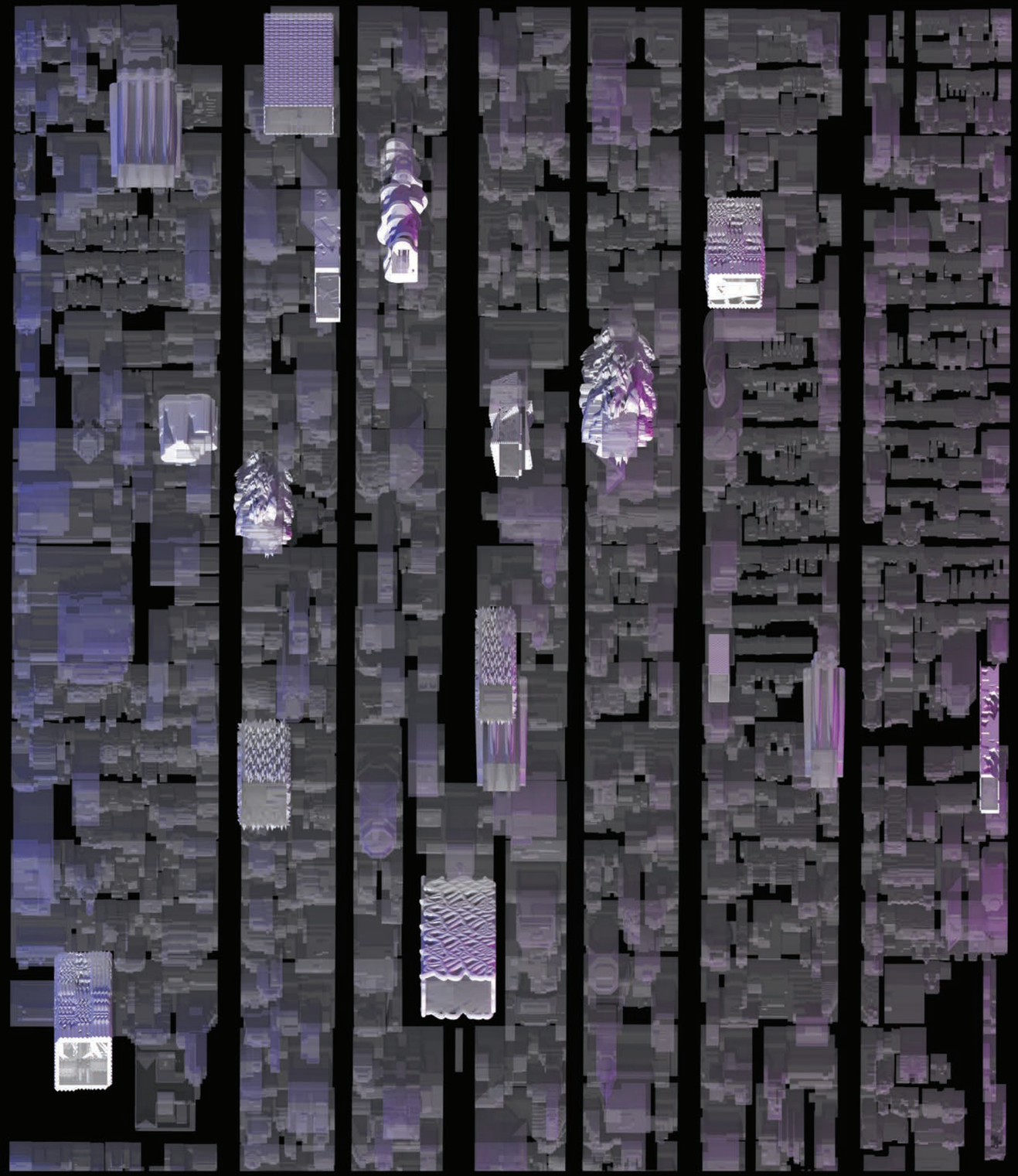


Side Elevation (North) and Back Elevation (East)



Exploded Structural Axonometric



PatternMaking

structural system
interior glass partition
window openings
interior balcony