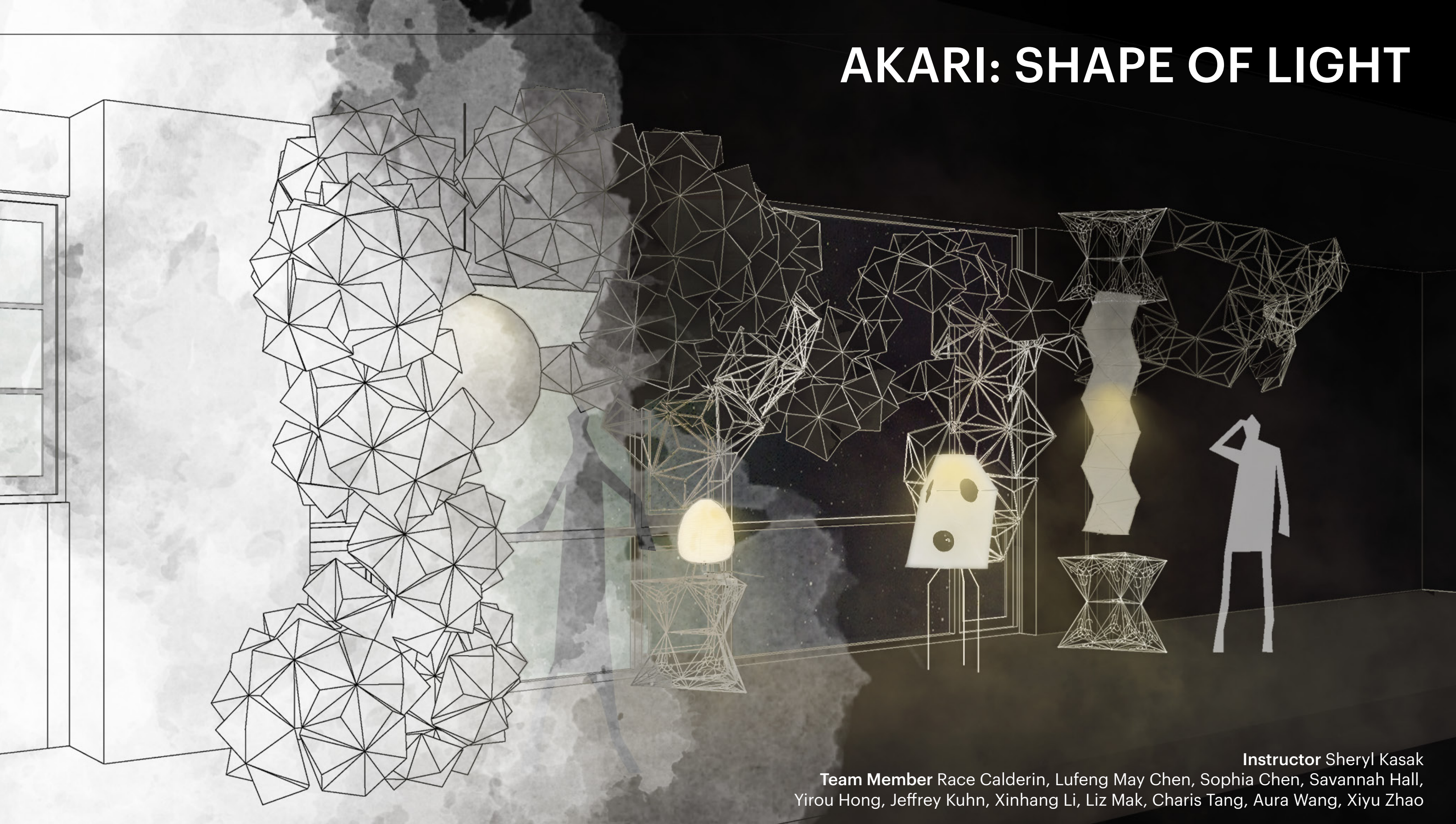


AKARI: SHAPE OF LIGHT



Instructor Sheryl Kasak
Team Member Race Calderin, Lufeng May Chen, Sophia Chen, Savannah Hall,
Yirou Hong, Jeffrey Kuhn, Xinhang Li, Liz Mak, Charis Tang, Aura Wang, Xiyu Zhao

PARTNERS



AKARI: SHAPE OF LIGHT

Inspired by the interplay of light and shadow in Akari light sculptures, a traveling pop-up exhibition is proposed. *Akari: Shape of Light* is made of a versatile assembly, designed to transform an interior space into a poetic place that **educates** the public about Isamu Noguchi; and to **create** a participatory built environment that embodies the artist's creative principles.

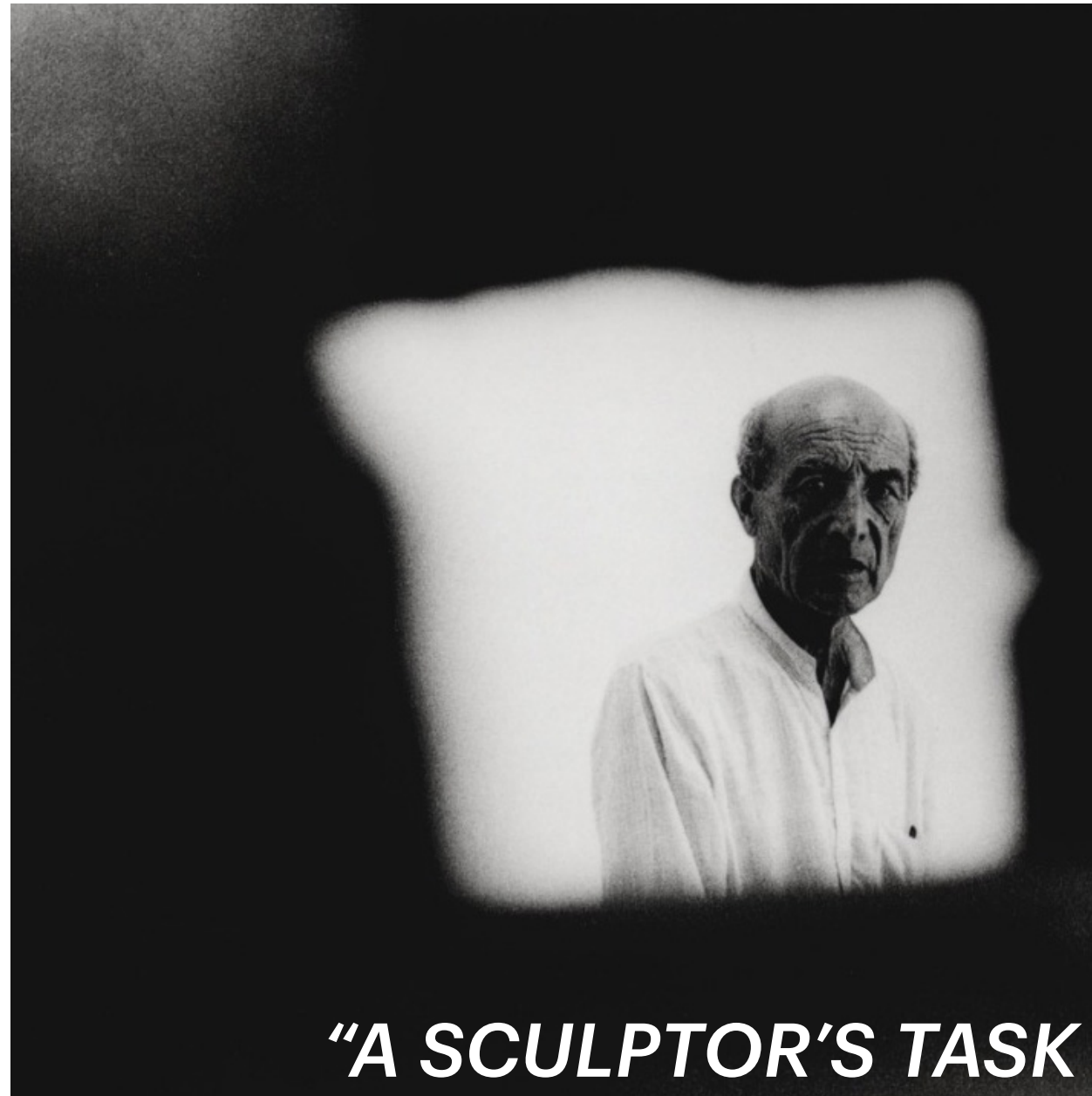
The installation is a manifestation of the diametric nature of light that shifts between day and night. The overall design is informed by Noguchi's merging of opposites — **surface and structure, density and weightlessness, dark and light**.

Extracted from the L8 model, the derived system of **triangular rotation** forms the modular design language and spatial strategy. Each configuration is collapsible and suspended from the ceiling — exploring **spatial relationships between form, volume, and illumination**. Concealed and revealed throughout the modular mass, the Akari is integrated in the tectonic language that defines the space and shapes the light.



ROTHOKO CHAPEL, HOUSTON, TX

ISAMU NOGUCHI



**"A SCULPTOR'S TASK
IS TO SHAPE SPACE."**



Charis Tang

"...a scientist-artist, a rare intuitive, original question-asker, and responder."

Isamu Noguchi: The Sculptor as Designer

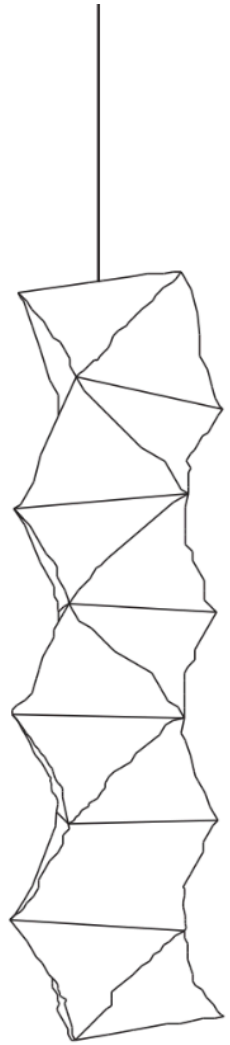
"Everything he does is linked to each other. The integration of art forms and mediums is not a stylistic choice for Noguchi. It's the integration of relationships between forms and human relationships with each other and objects."

Towards a Reintegration of the Arts

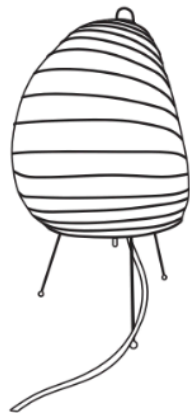
AKARI SCULPTURE

The modernized chochin light sculpture comes from the Japanese word "light", as in illumination and lightness in weight.

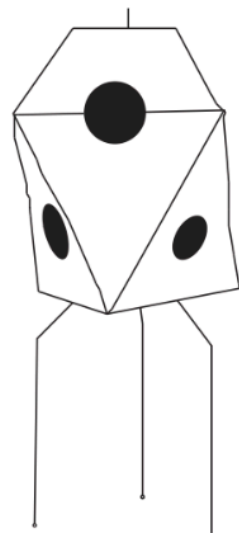
Akari embodies the "true development of an old tradition," presenting new forms with **puzzling geometries, asymmetry, and the appearance of randomness.**



L8



1N



UF3-Q



55A

岐阜提灯

摺込
Surikomi



口輪作り
Kuchiwa Zukuri



型組
Katagumi



張付
Haritsuke



継ぎ目切り
Tsugime Kiri



繪付
Estke



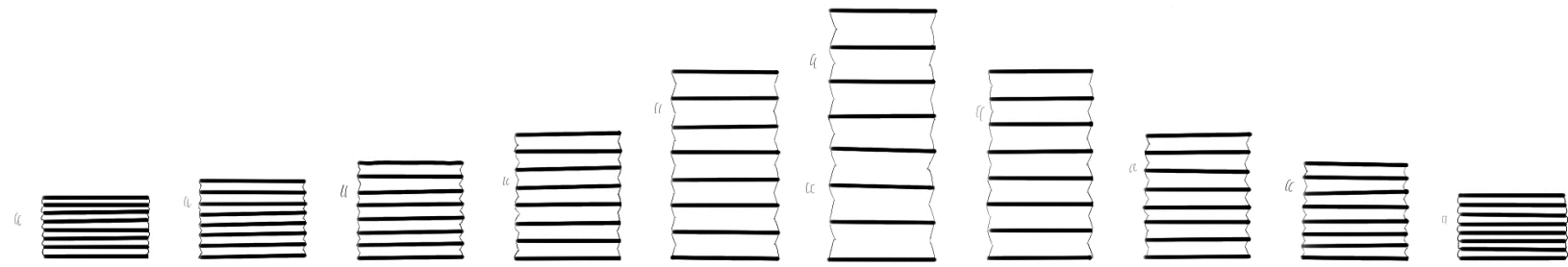
RECYCLED MATERIAL RESEARCH

68% of **newspaper** was recycled in 2021.

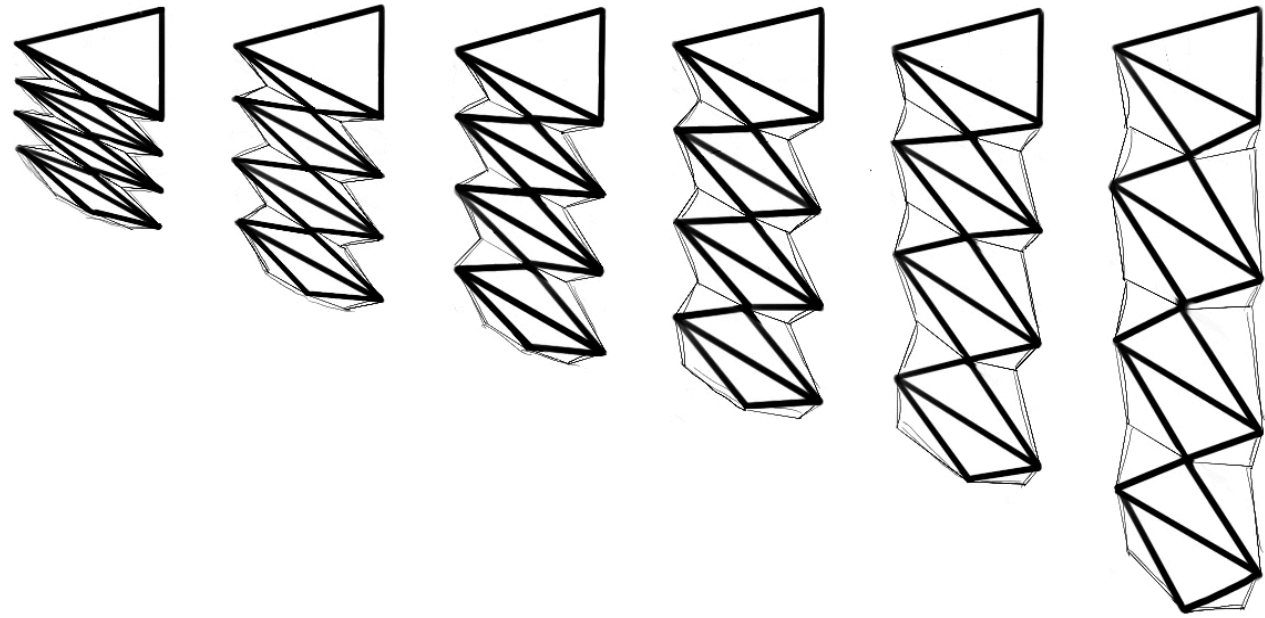
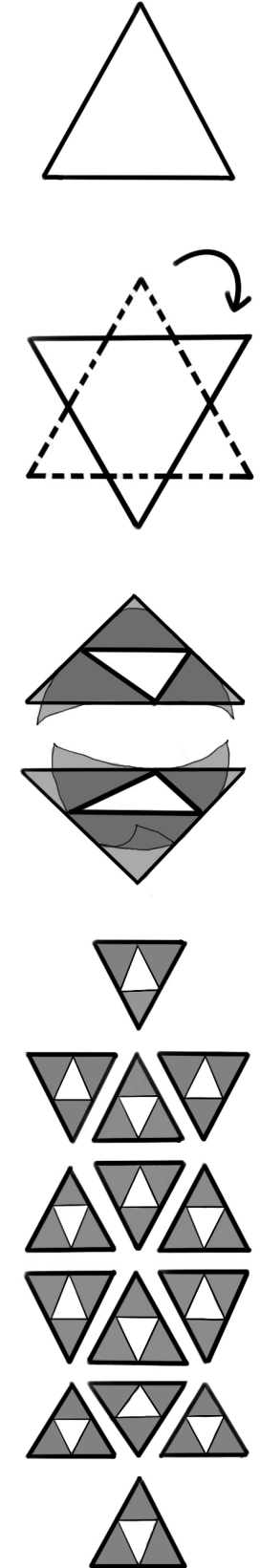
740,000 copies of The New York Times are sold everyday.

3,000,000,000 **metal hangers** were used by US dry cleaners in 2022.

DERIVED SYSTEM: TRIANGULAR ROTATION



VOLUMETRIC GROWTH THROUGH EXPANSION



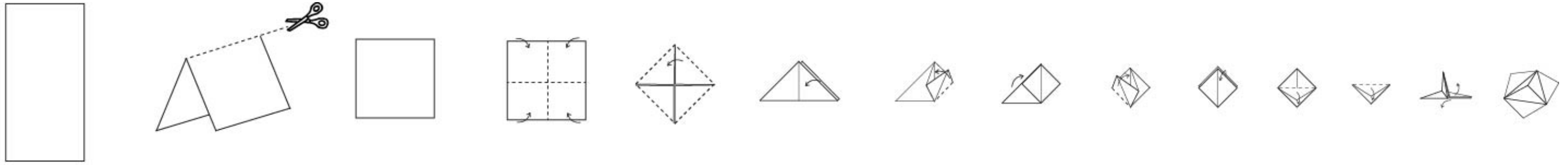
EXPANSION THROUGH ROTATION



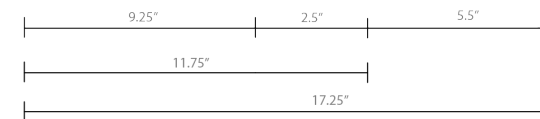
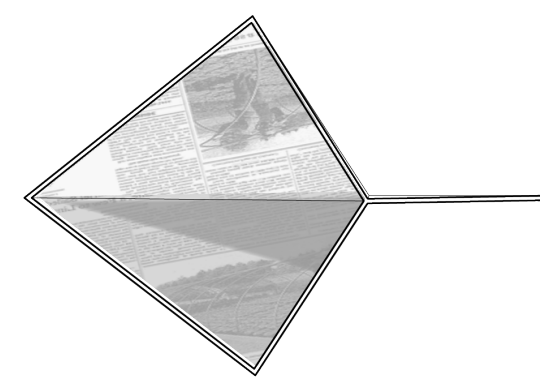
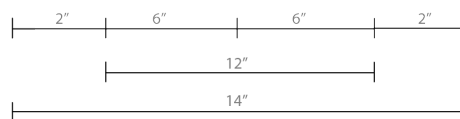
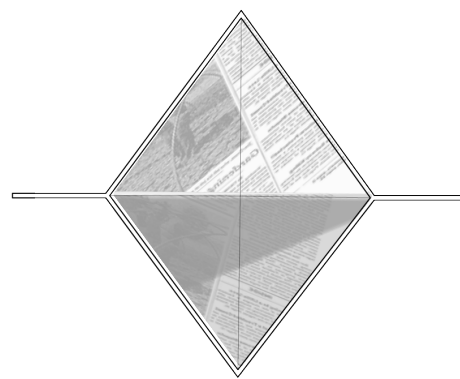
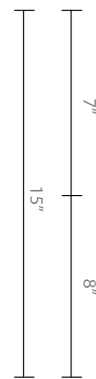
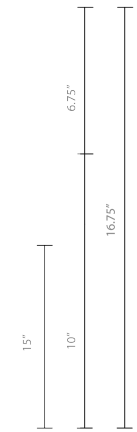
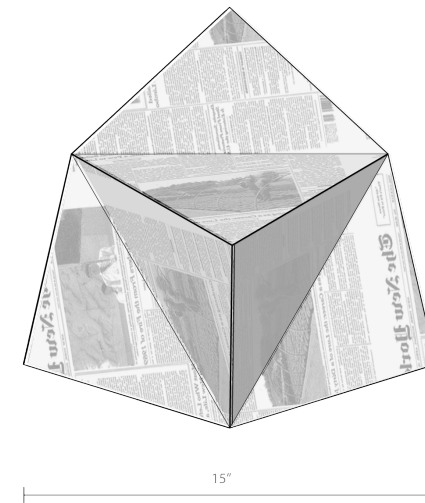
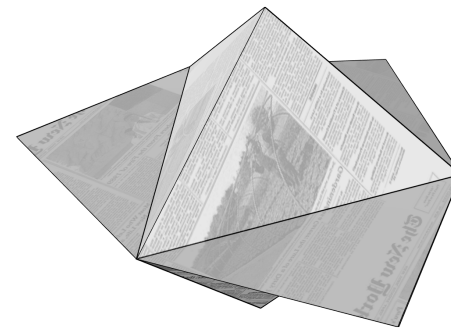
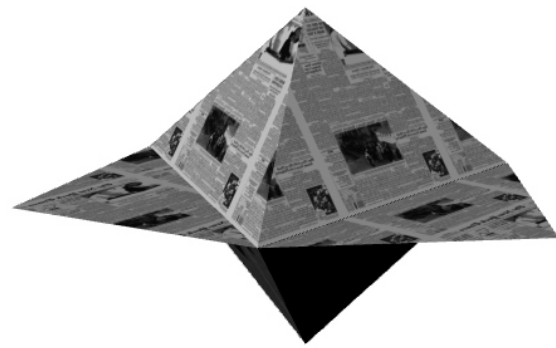
Akari Light Sculpture L8, Isamu Noguchi, 1951
<https://shop.noguchi.org/products/akari-l8>

MODULE UNIT

SURFACE

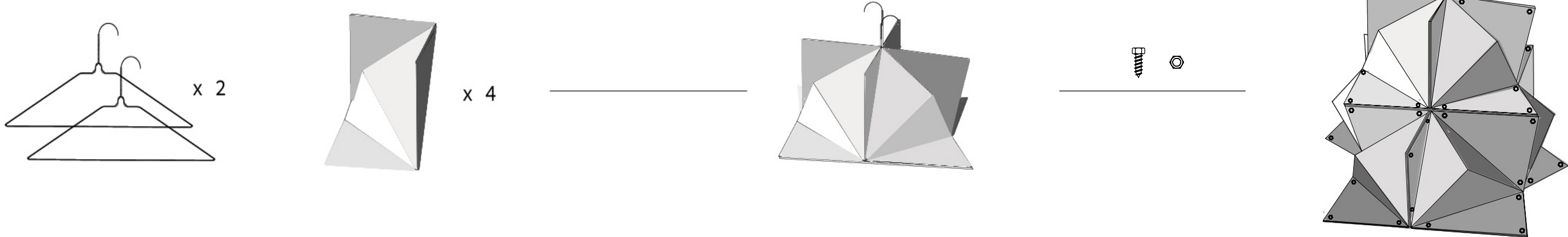


ONE SHEET OF NEWSPAPER FOLDED ORIGAMICALLY INTO A MODULE

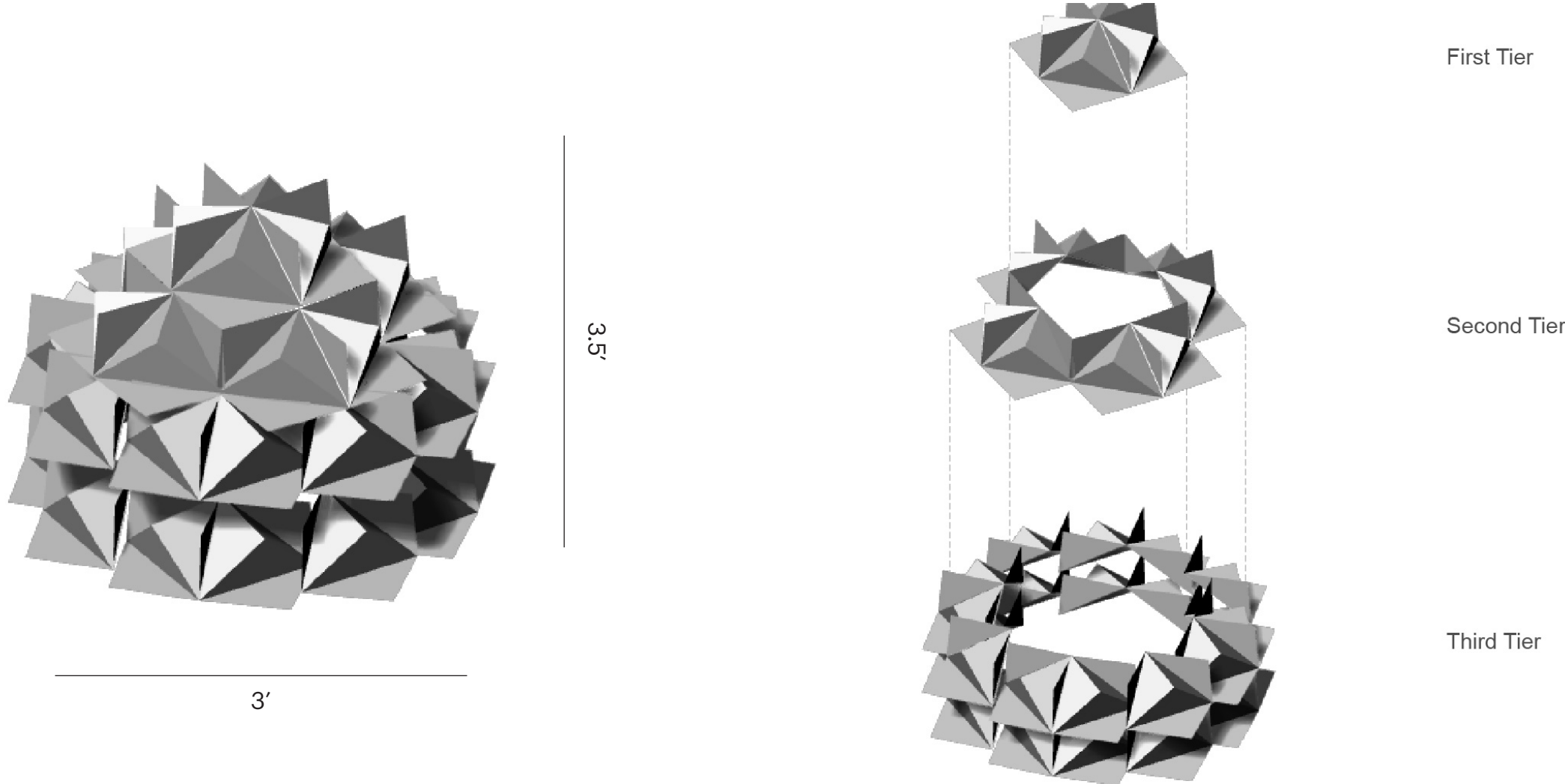


CONNECTION + AGGREGATION

SURFACE

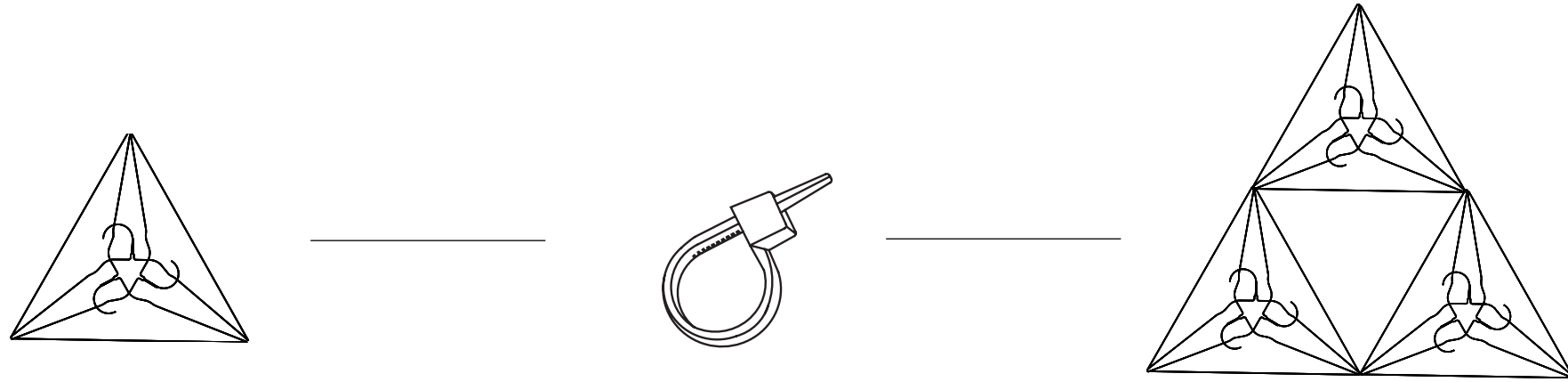


TWO TWISTED WIRE HANGERS ARE USED AS A MEANS OF CONNECTION BETWEEN THE SURFACE UNIT AND THE SITE RESULTED IN SUSPENDED VOLUME.

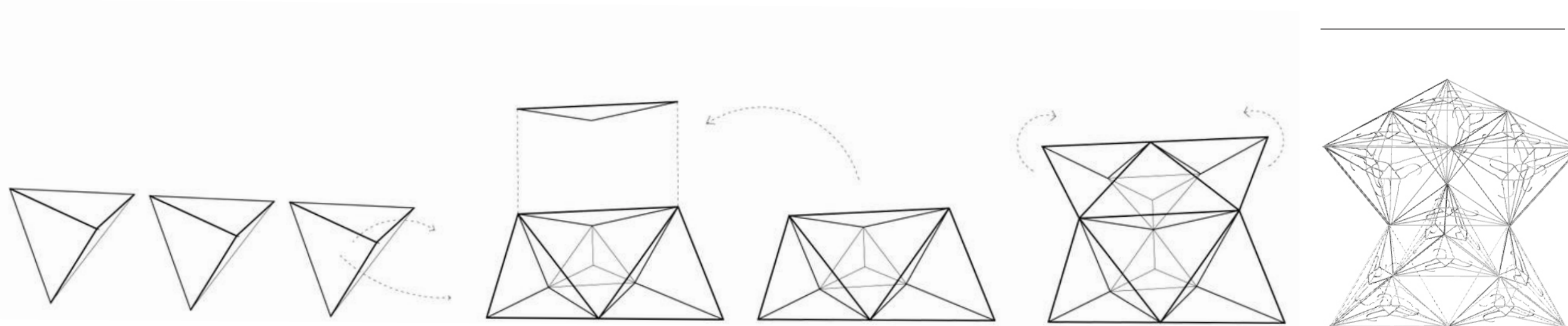


MODULE UNIT

SKELETON

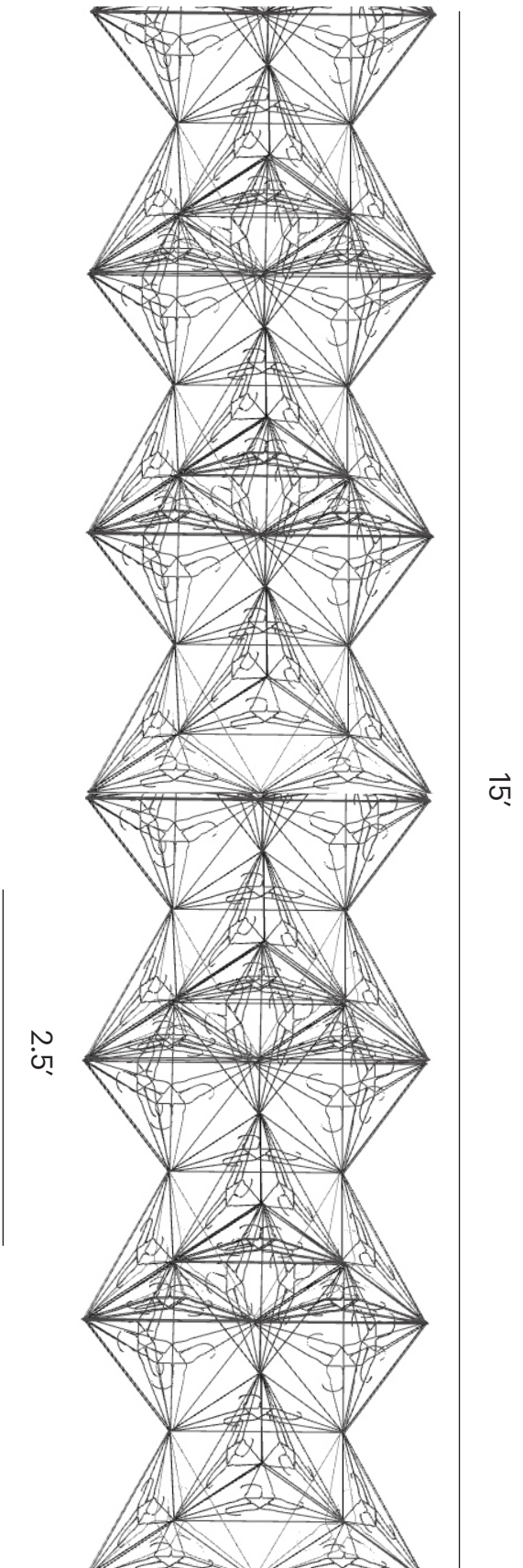


3 TWISTED METAL HANGERS ARE ROTATED AND FASTENED TO CREATED A 2 DIMENSIONAL TRIANGULATED STRUCTURAL SYSTEM.

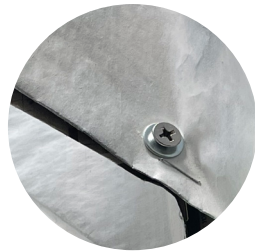
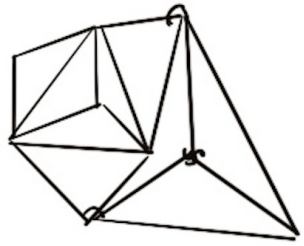


THE 2 DIMENSIONAL MODULE BECOMES A 3 DIMENSIONAL VOLUME BY AN AGGREGATION OF SYSTEMS.

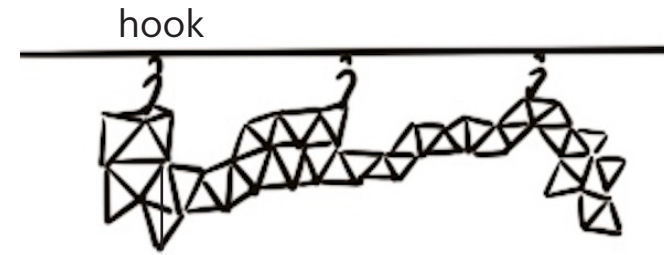
Jeffrey Kuhn



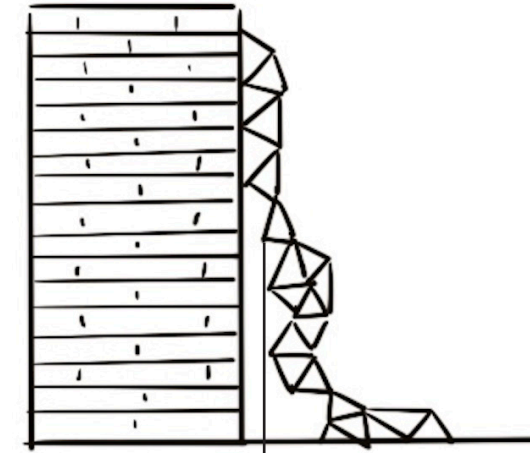
TAXONOMY OF CONNECTIONS



washer + bolt



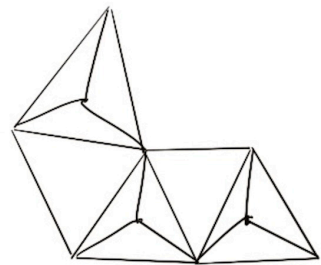
module to ceiling



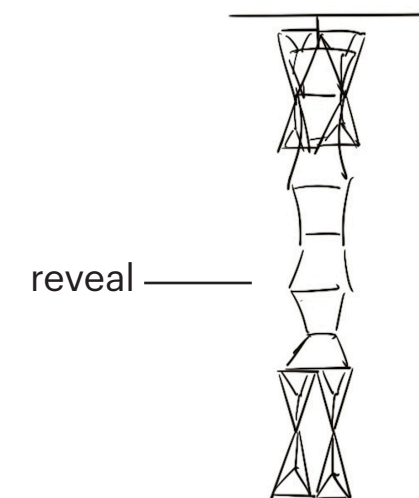
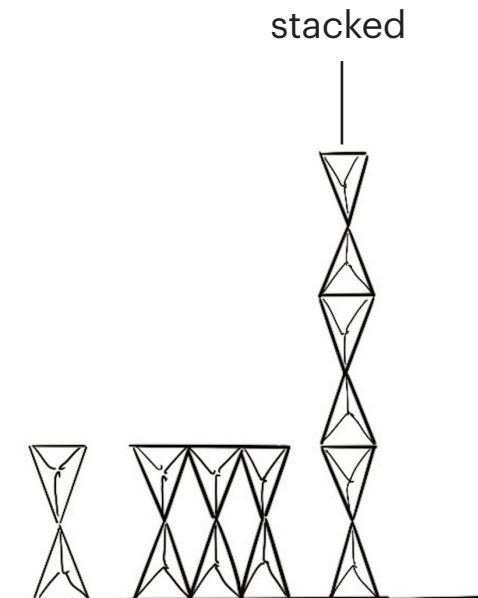
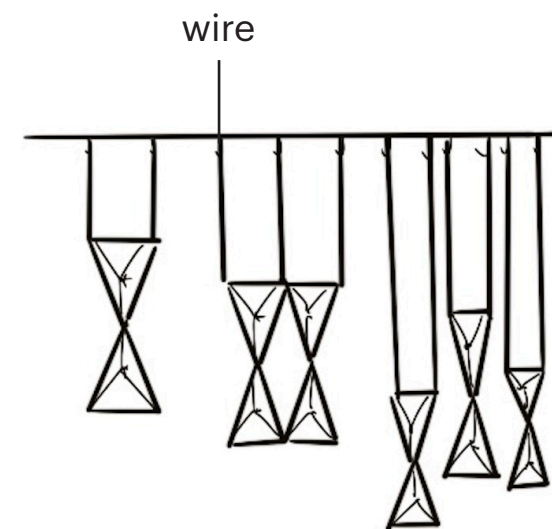
module to floor



module to akari



zip ties



RESPONDING TO PRE-EXISTING SITE CONDITIONS, A MYRIAD OF CONNECTIONS WAS TESTED, INCLUDING USING WASHER + BOLT FOR CONNECTING MODULES, SUSPENDING TRANSLUCENT FISHING WIRE FOR MASSES OF MODULARIZED SYSTEMS, HOOKING METAL WIRES TO EACH OTHER WITH ZIP TIES AND WIRES THEMSELVES.

THE FINAL CONNECTION DETAILS ARE FUNCTIONAL, AESTHETIC AND STRONG.

PRATT STUDIOS C-200 Second Floor Corridor

THE SITE is a **major corridor** that connects the Interior Design Department and Fashion Design Department. It is the main landing threshold between the lobby and the second floor.

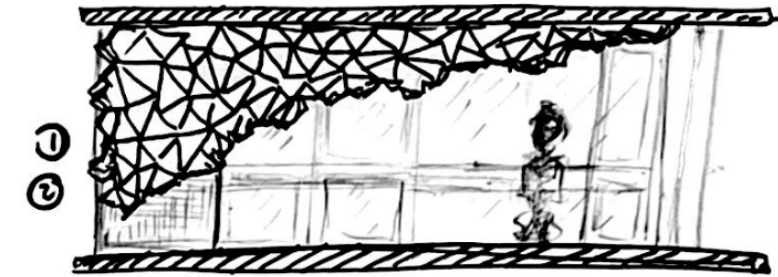
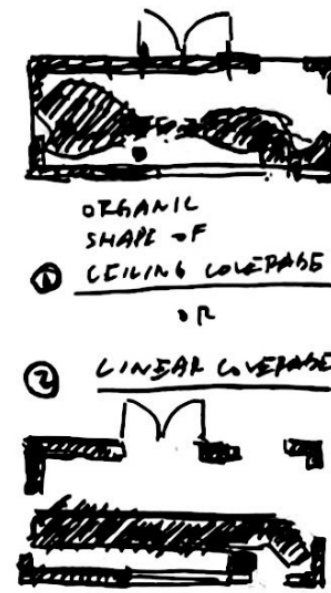
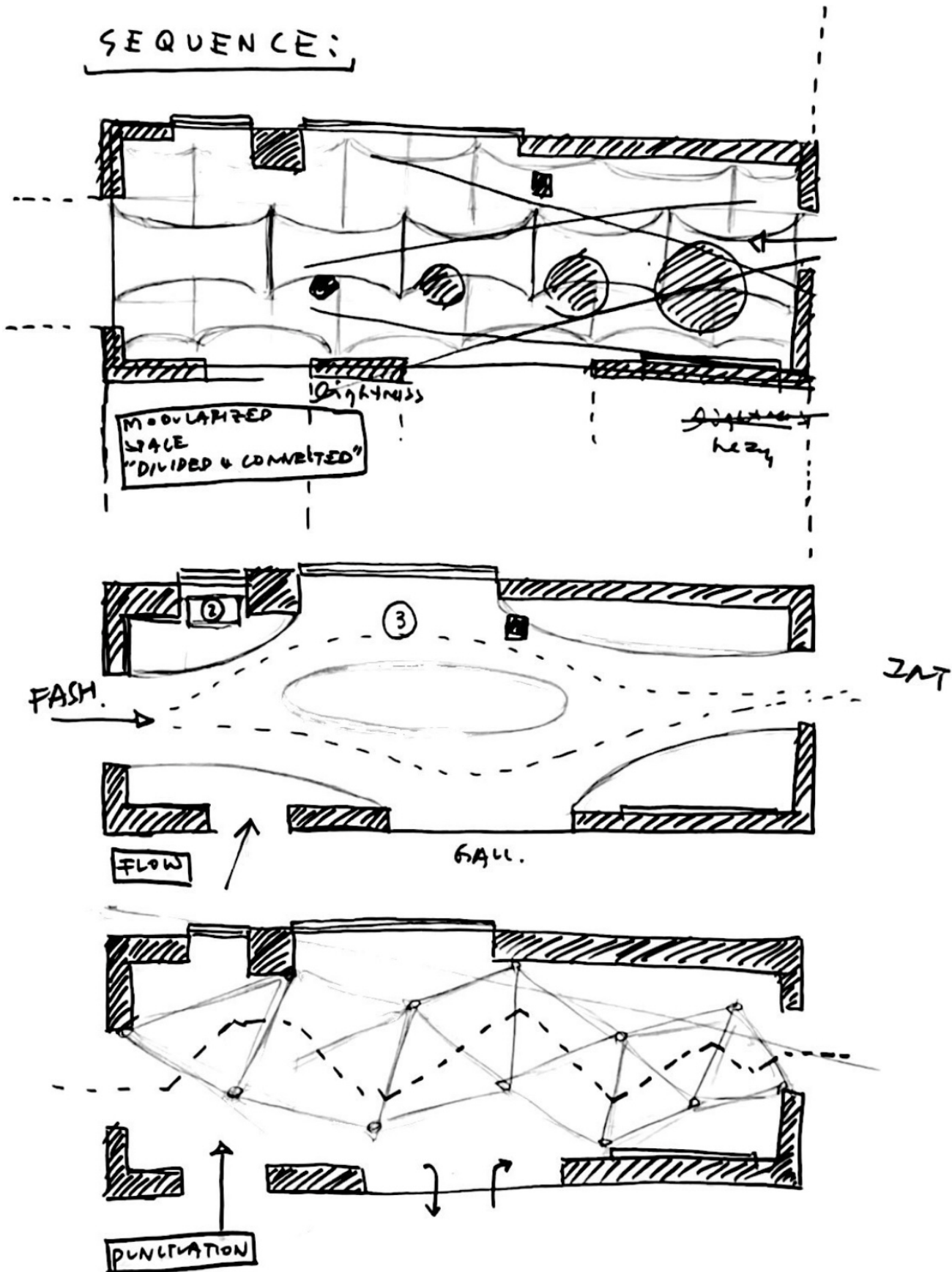
THE MOVEMENT is **fast and transitory**.

AS AN INTERVENTION to slow down circulation and invite the public into the space, the spatial language is defined by a modularized sequence, designed to reorient the human body, and to create opportunity to a new point of view.

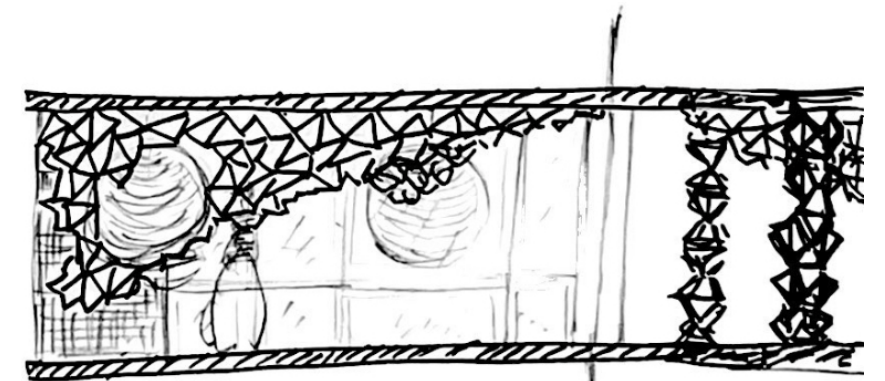
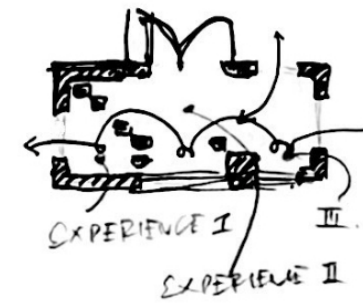
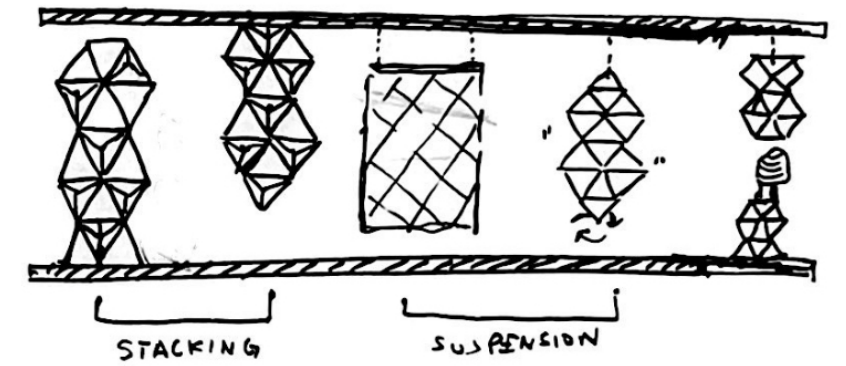


DESIGN PROCESS

SEQUENCE:

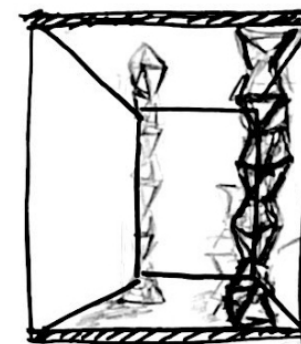


LIGHT UPLIFTED ↑



SKIN SOLID

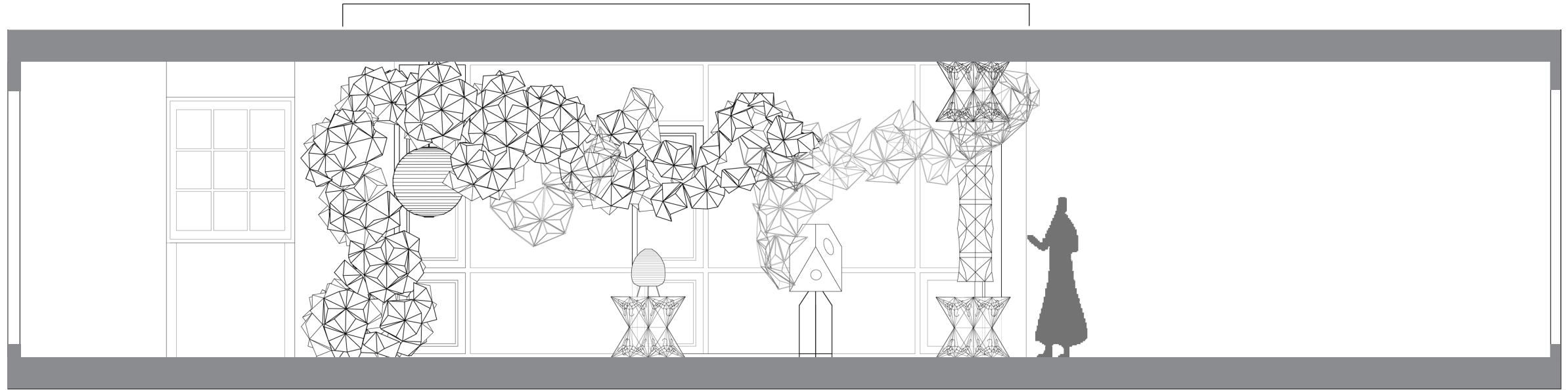
SKELETAL VOID



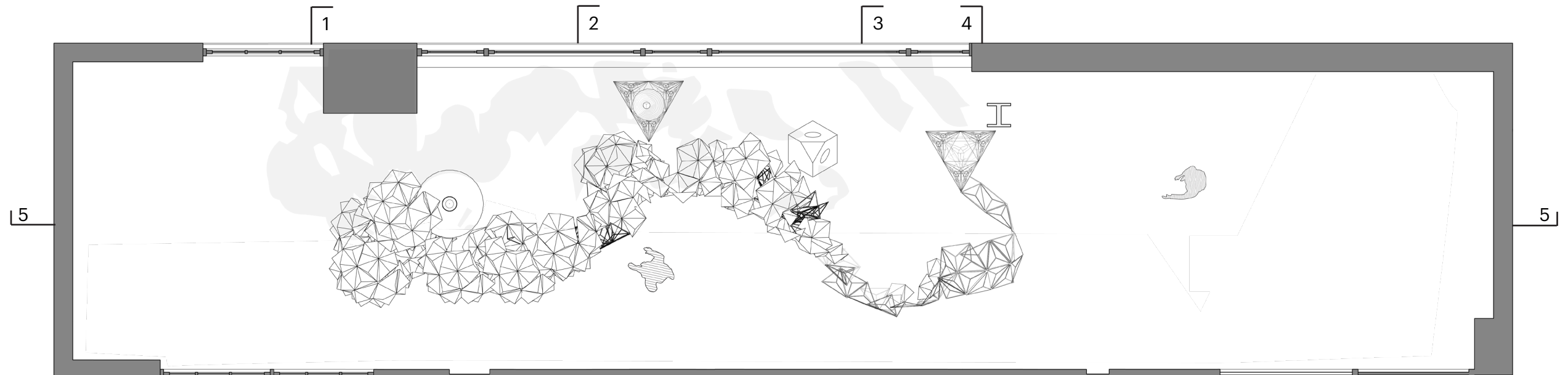
SKELETAL COLUMNS LEVELS

PLANS

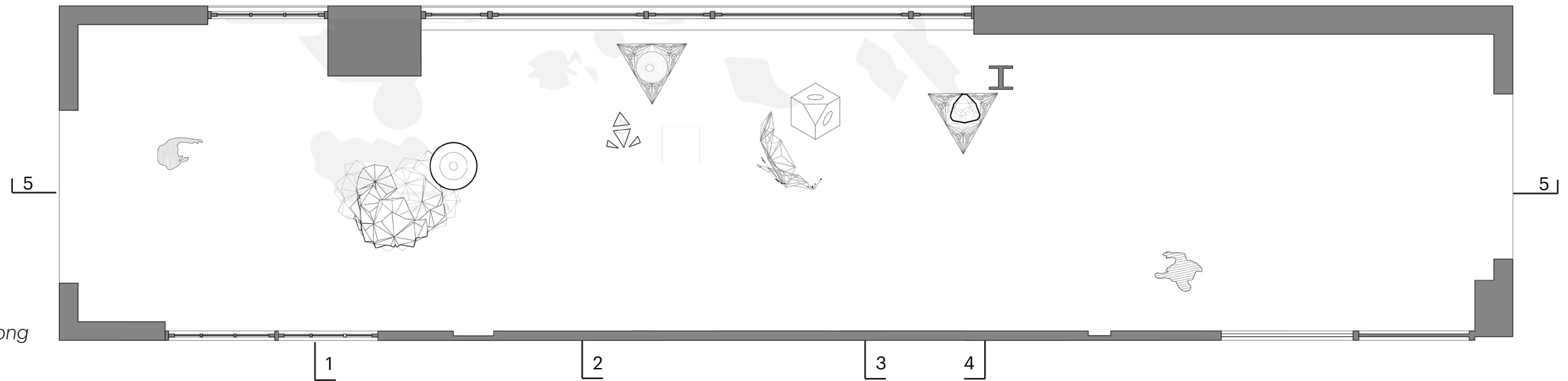
22 3/4'



SECTION 5 LOOKING SOUTH



FLOOR PLAN @ 5' AFF

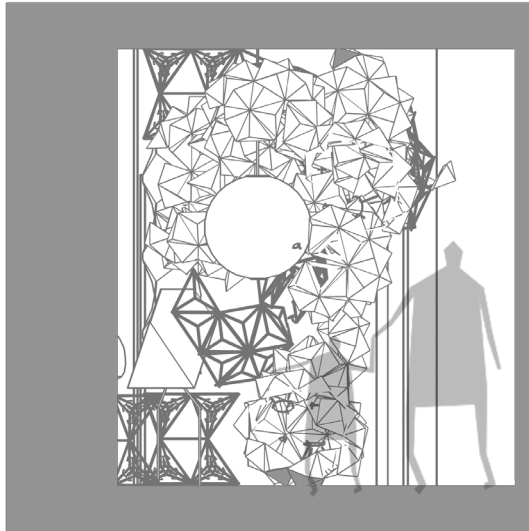


FLOOR PLAN @ 3' AFF

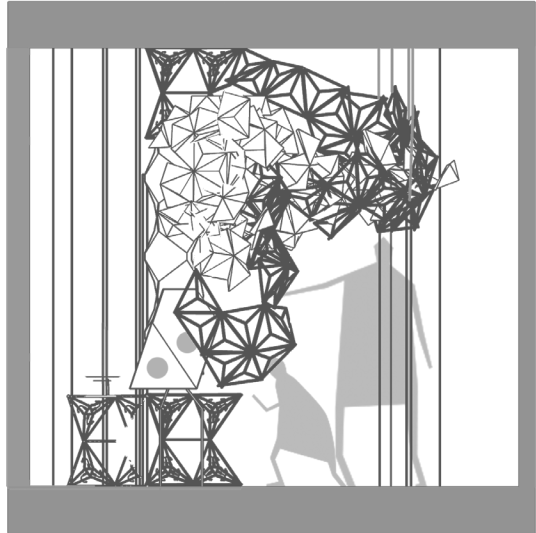
Aura Wang, Yirou Hong

SECTIONS / AXON

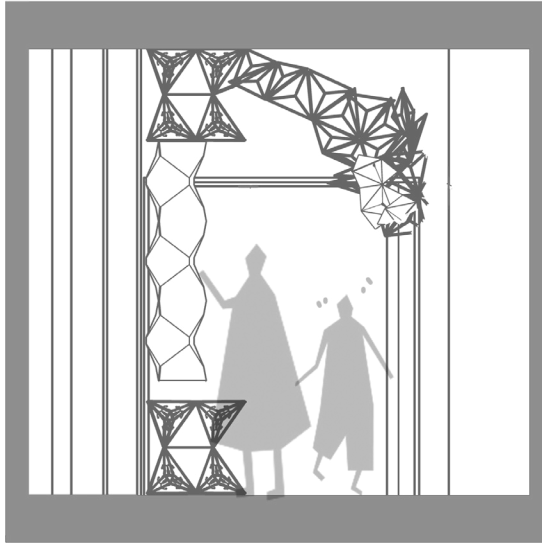
FROM ENTRY TO EXIT



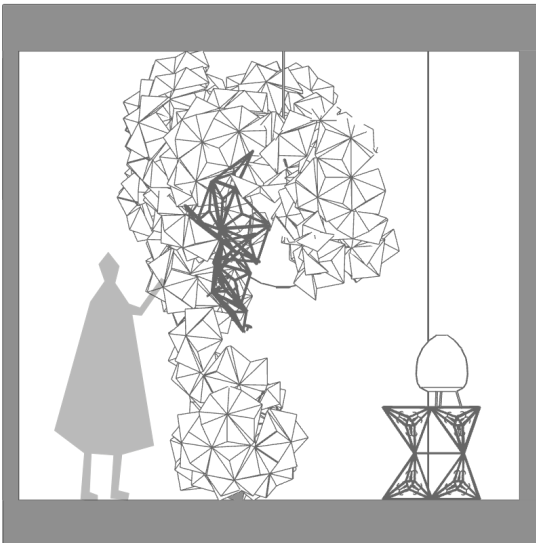
SECTION 1



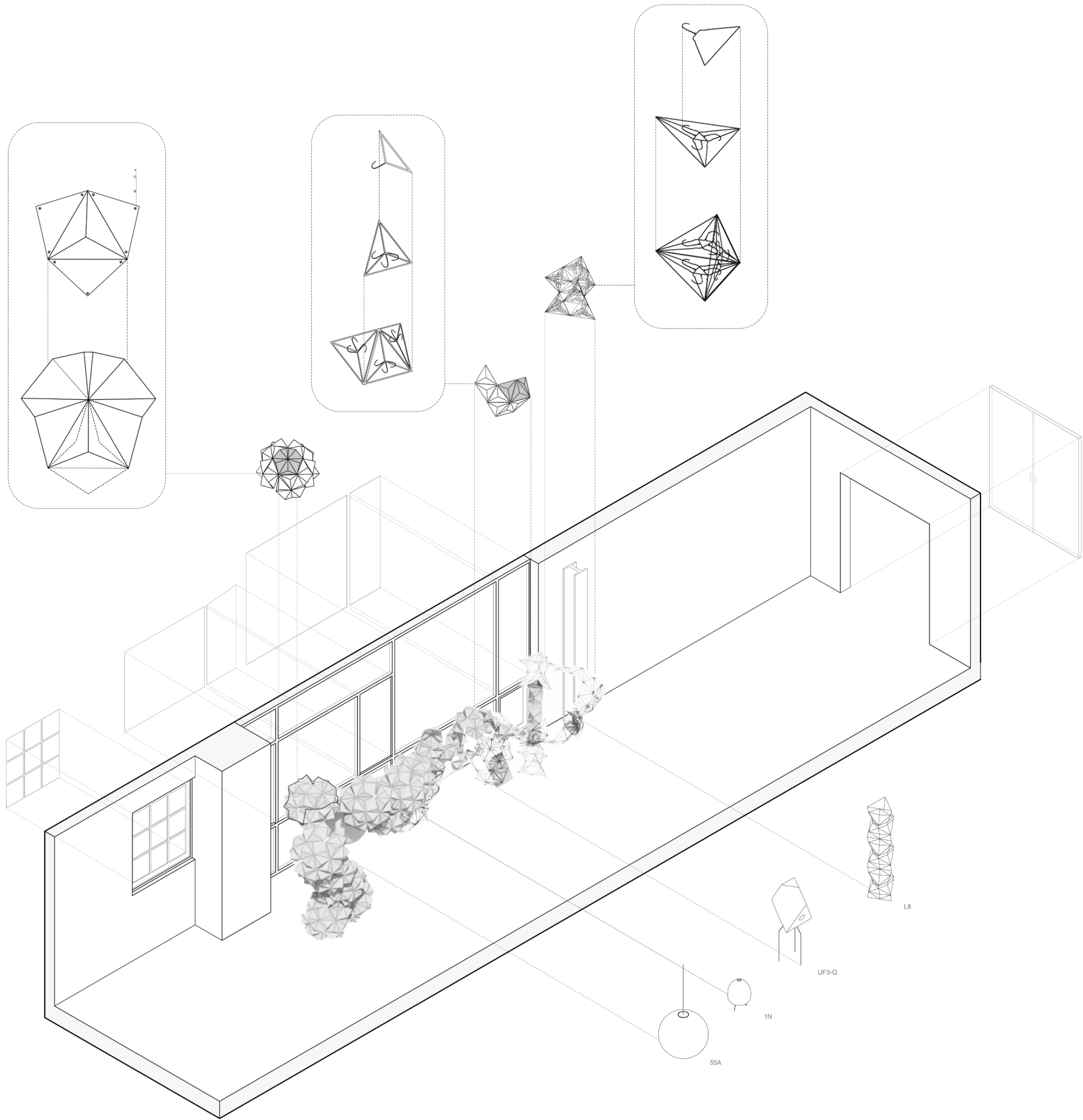
SECTION 2



SECTION 3



SECTION 4





LOOKING SOUTH WEST
TO INTERIOR DESIGN DEPARTMENT

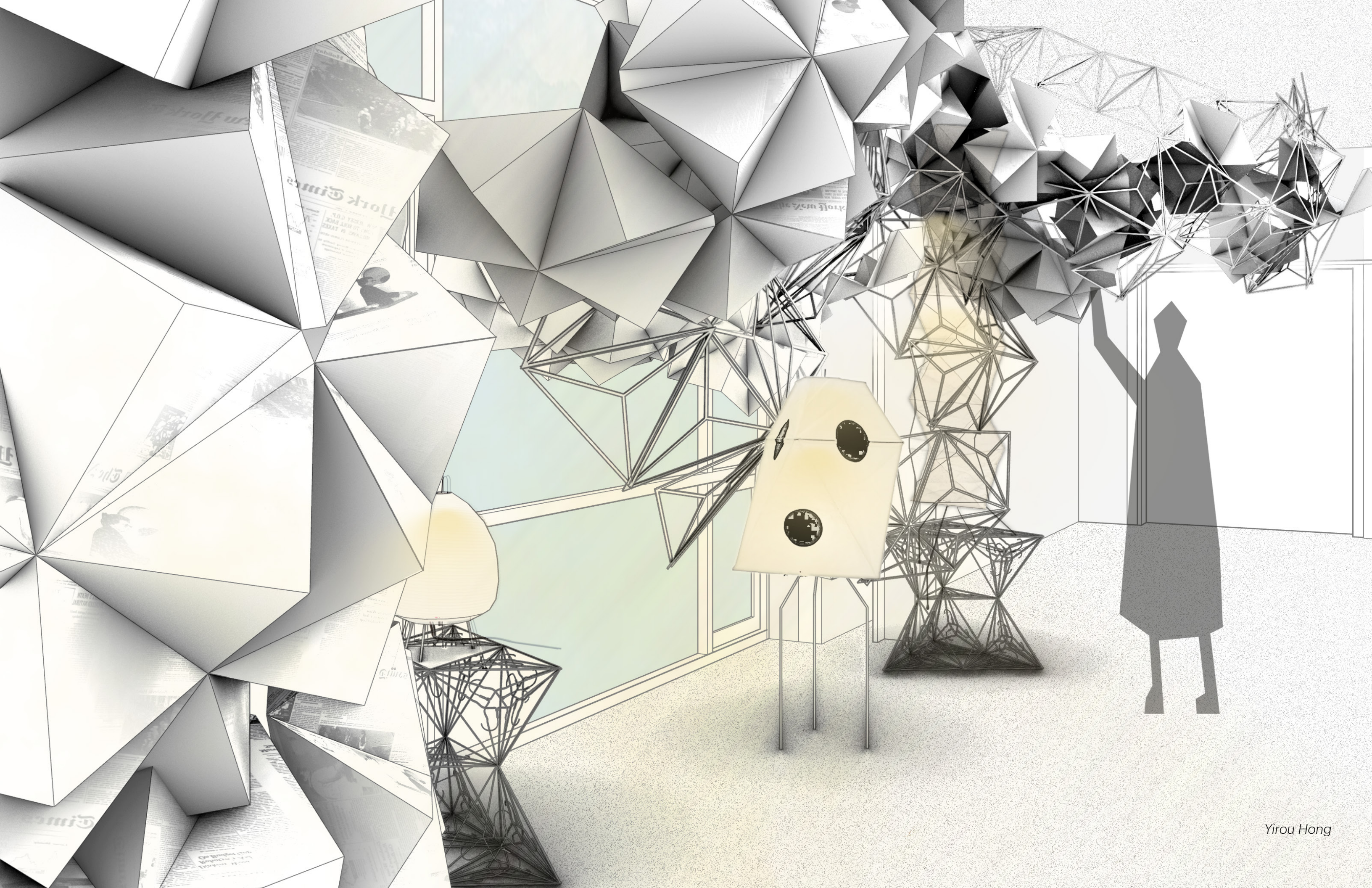


LOOKING SOUTH EAST
TO FASHION DESIGN DEPARTMENT

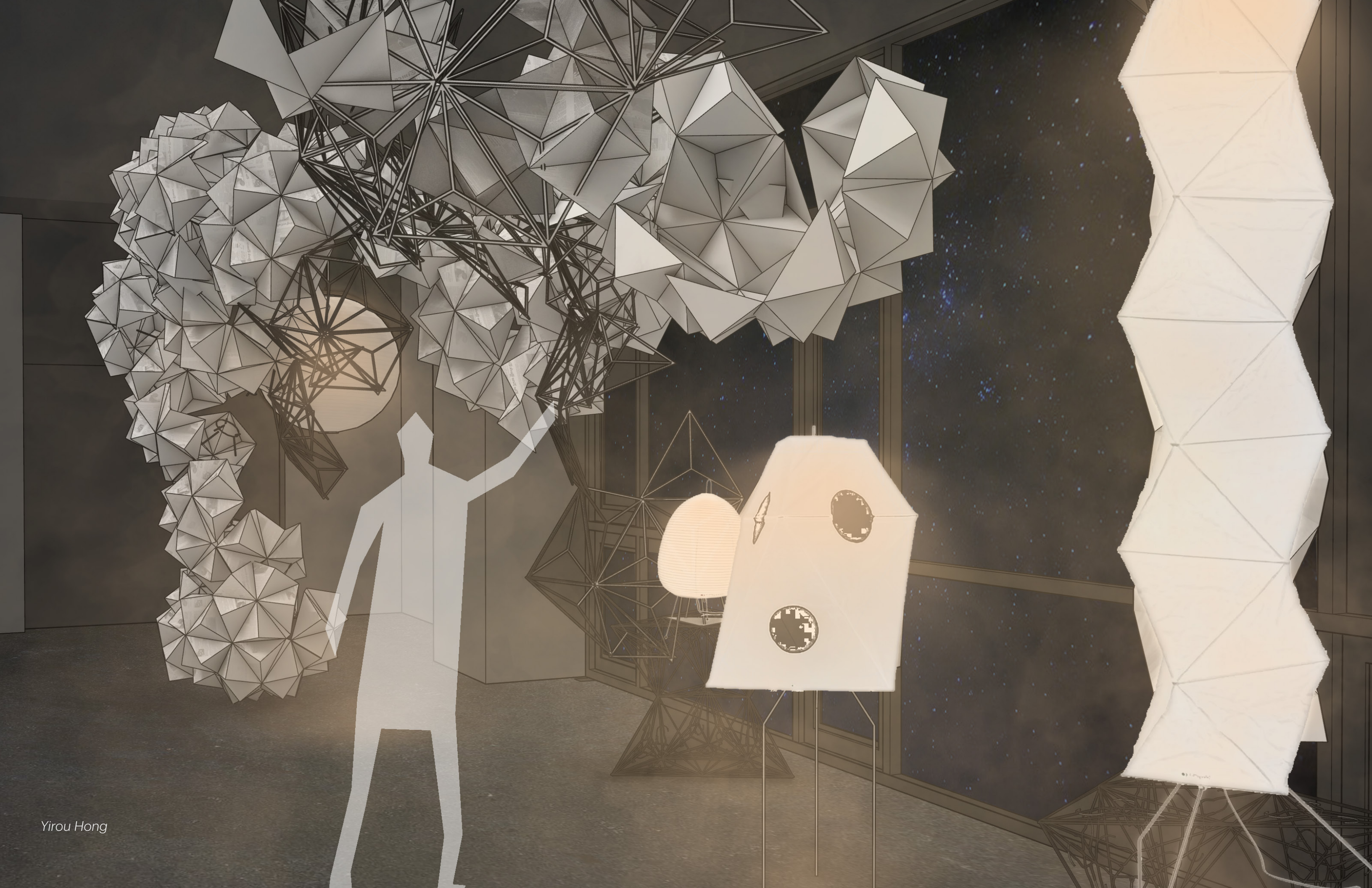


Charis Tang
LOOKING SOUTH EAST TO COURTYARD

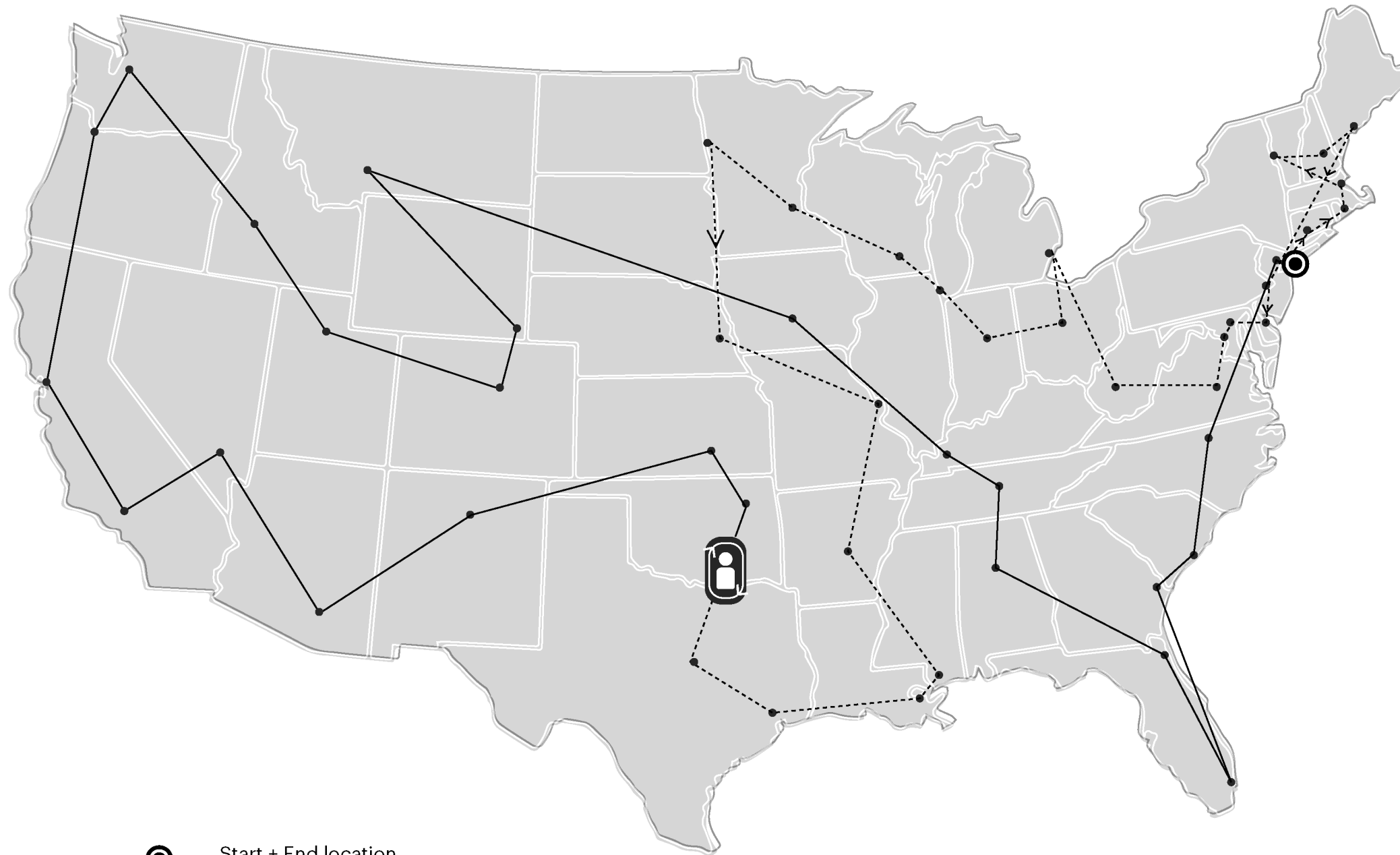








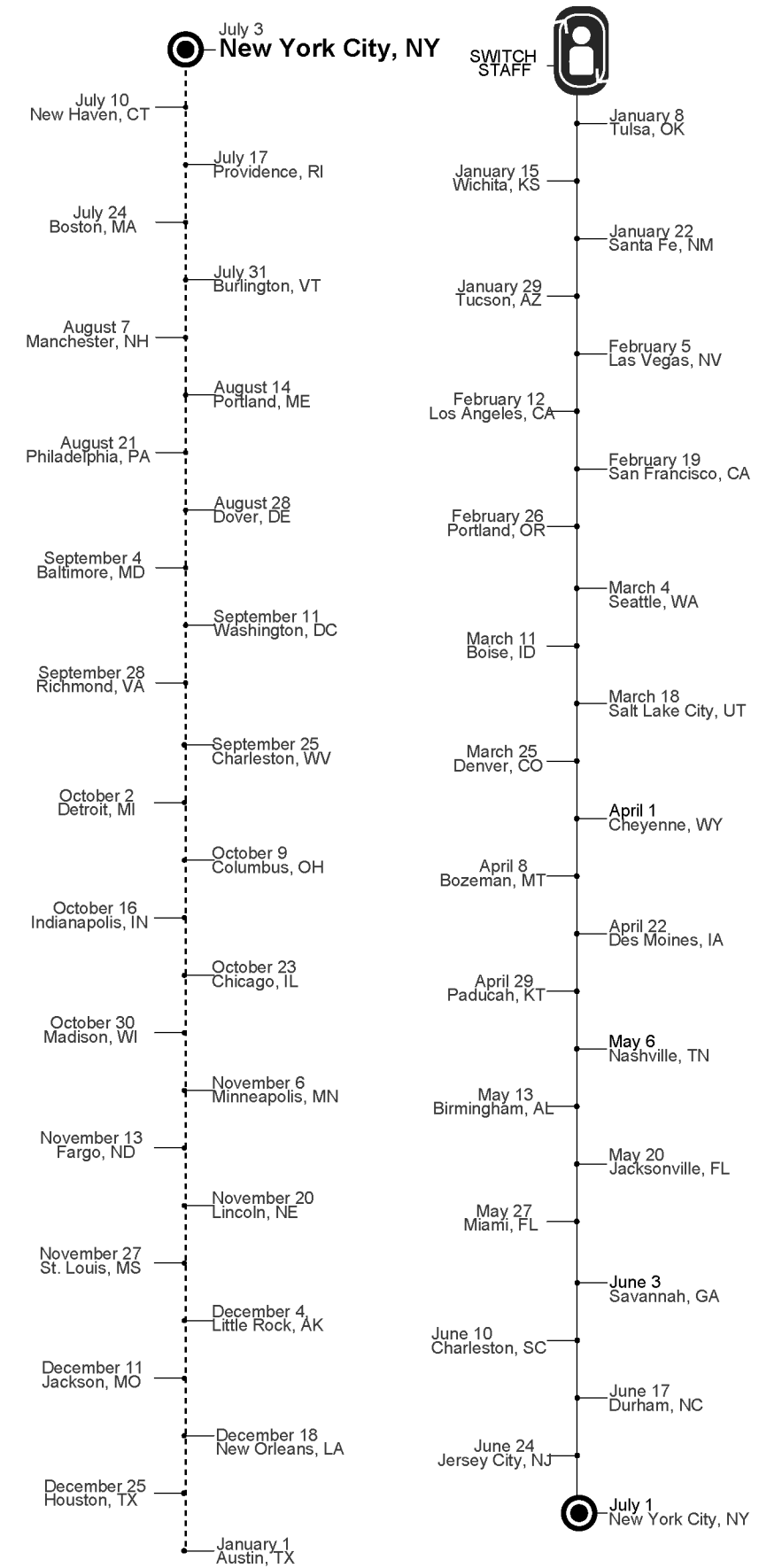
TRAVELING EXHIBITION MISSION



- Start + End location
- Stop
- First Half of 1 Year Plan
- Sec Half of 1 Year Plan
- 👤 Staff Switching point

AKARI: SHAPE OF LIGHT WILL VISIT TO UPWARDS 50 CITIES IN THE US IN ONE YEAR. EACH POP-UP PAYS IT FORWARD TO THE NEXT, JUST AS EACH AKARI LIGHTS THE WAY TO THE NEXT ITERATION.

ALL PROCEEDS FROM EACH POP-UP WILL GO TOWARDS THE EXECUTION OF THE SUBSEQUENT STOPS, INCLUDING FUNDING AKARI-MAKING AND MODULE-MAKING WORKSHOPS, AIMING TO SPREAD THE KNOWLEDGE OF MODERN FORMS IN TRADITIONAL JAPANESE MATERIALS.

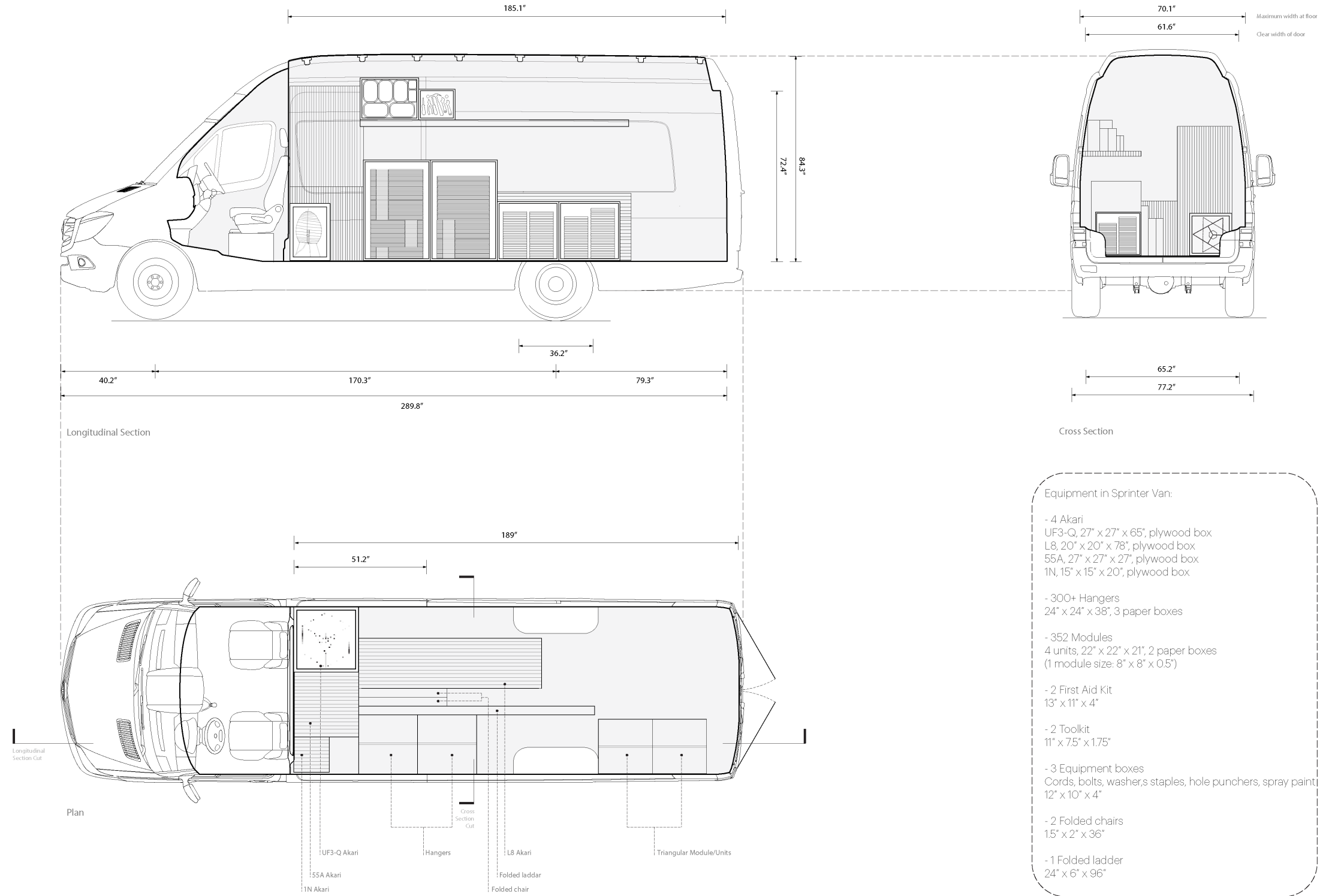


SPRINTER VAN DESIGN



2022 MERCEDES SPRINTER 2500
DESIGNED FOR POP-UP

A SPRINTER VAN IS USED TO HOUSE BOTH THE EXHIBIT AND THE AKARI WHEN THEY ARE NOT DEPLOYED. THE INTERIOR IS DESIGNED AS AN EFFICIENT STORAGE SPACE THAT ACCOMMODATES ALL MATERIALS, FLAT-PACKED MODULES AND WIRE HANGERS, AND TOOLS.



PROPOSAL FOR FUTURE POP-UP EXHIBITION



ROTHOKO CHAPEL, HOUSTON, TX



BERKELEY ART MUSEUM & PACIFIC FILM ARCHIVE, BERKELEY, CA

ARTS & CULTURAL FESTIVALS, CONTEMPORARY MUSEUMS AND GALLERIES, EDUCATIONAL INSTITUTIONS ARE PREFERRED POP-UP LOCATIONS. AS WORKSHOPS REQUIRE ADDITIONAL SPACE AND PROGRAMMING, A COLLABORATIVE EFFORT BETWEEN PARTNERS IS ENCOURAGED.