

Project 3

Modular Subway Seating

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Space+Materiality

Aviva Shulem

Fall 2018



The Issue (Research)

Present subway seating is either nonexistent or too rigid for customers to sit in comfortably. If bench seating does exist in a given concourse, it can also become an obstacle during peak hours when the station becomes congested with commuters entering and exiting.

The MTA is already difficult enough for people with disabilities to circumvent. Adding poorly created or a complete lack of seating chairs only adds to the difficulty.

Finally, the standard bench design seen in subways creates no sense of community. Seats are so divided that it's nearly impossible to turn to the people sitting around you and talk.

Good design needs to address the needs of people with disabilities, integrate well with foot traffic, and foster community on multiple levels.

With the \$250 million Manhattan-wide subway renovation plan in action, now is the perfect time to redesign MTA seating strategies.

Our Solution

We think that by designing modular systems that allow for dynamic and/or collapsible design, we can dramatically enhance the subway experience for patrons. Designing chairs/benches without harsh dividers would also provide people of all shapes and sizes with comfortable seating. Lastly, seating that can collapse or compact would help increase the flow of subway traffic during rush hours.

Mood Board

COLLAPSIBLE

PLANAR

DURABLE

MODULAR

DYNAMIC/TRANSFORMATIVE

SUSTAINABLE

PUBLIC SEATING AND BENCHES



Material

Cardboard - cheap, recyclable, sustainable, lightweight

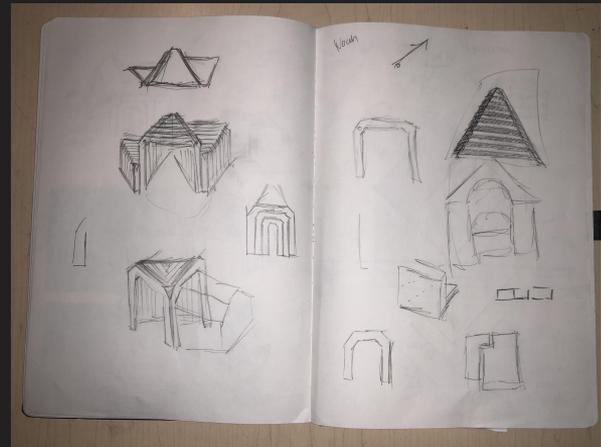
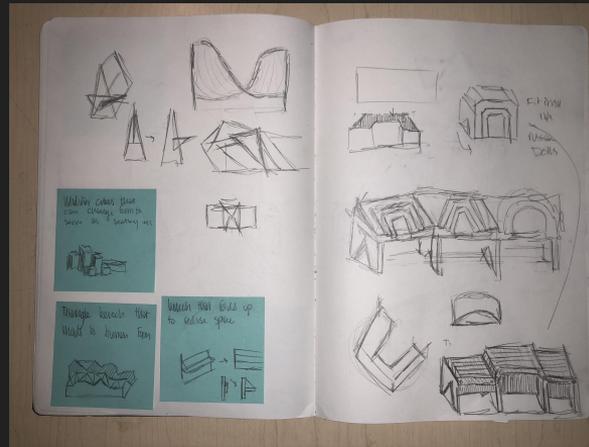
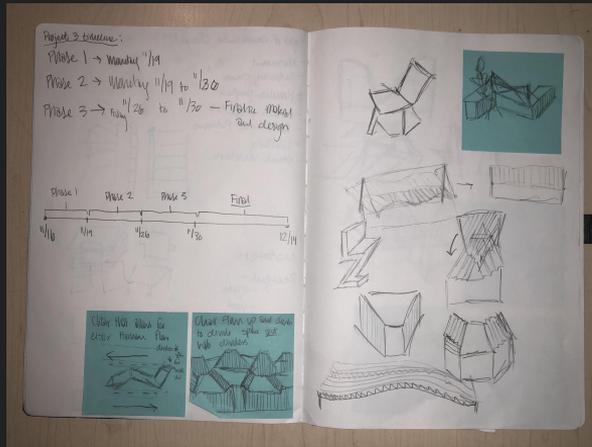
If you can build it in cardboard, you can build it in anything!

Wood Glue - for laminating cardboard

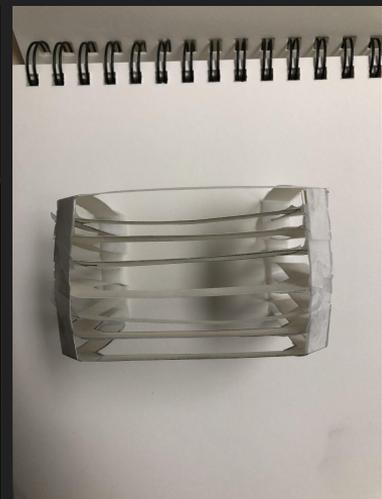
Subway Implementation - hardwood or metal (materials that can be sanded down and refinished when needed and resist absorption)

Noah Cousino

Sketches

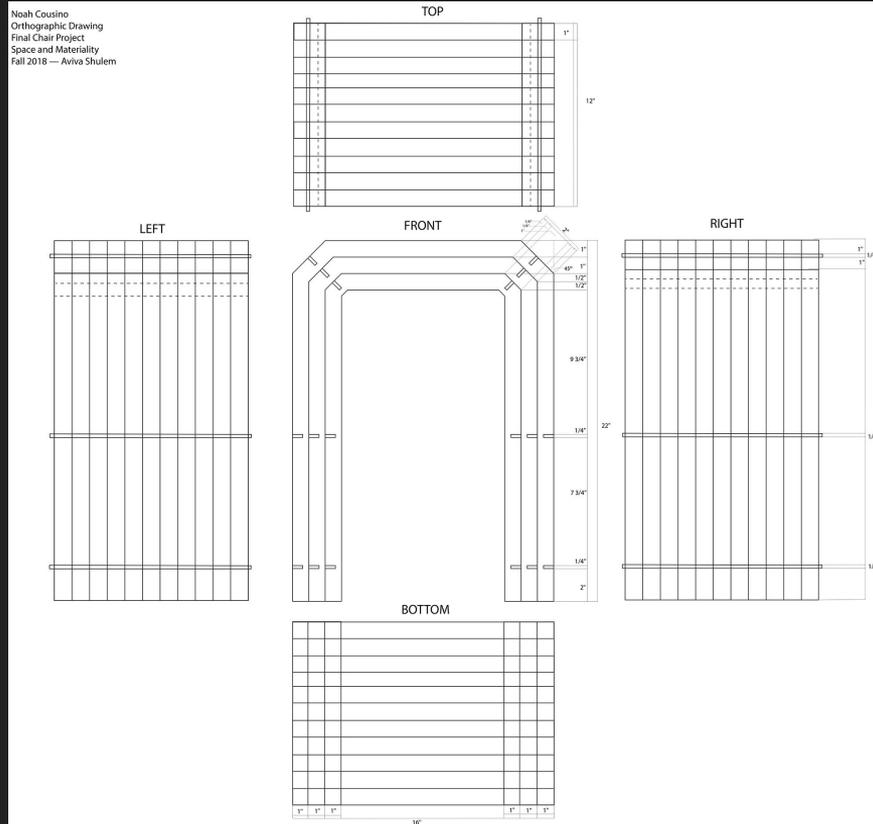


Noah



Technical Drawing

Noah Cousino
Orthographic Drawing
Final Chair Project
Space and Materiality
Fall 2018 — Aviva Shulem



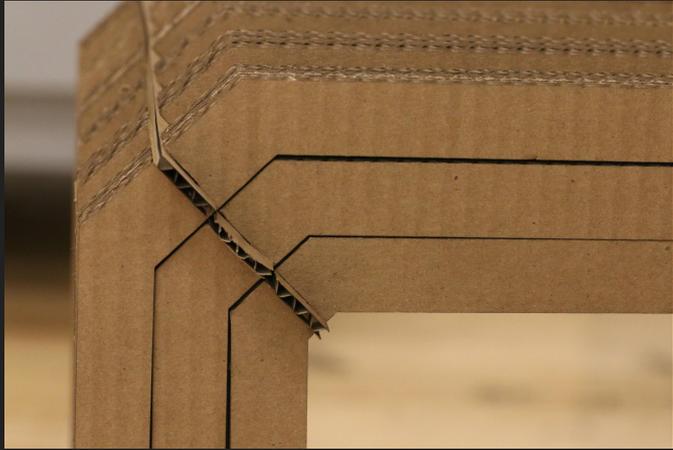
Packaging Details

- Flattens down to 22 by 16 by 6
- Slots come out so pieces can stack
- Chair slots fit inside of each other
- Simple, intuitive design would not even require explicit instructions.



Process













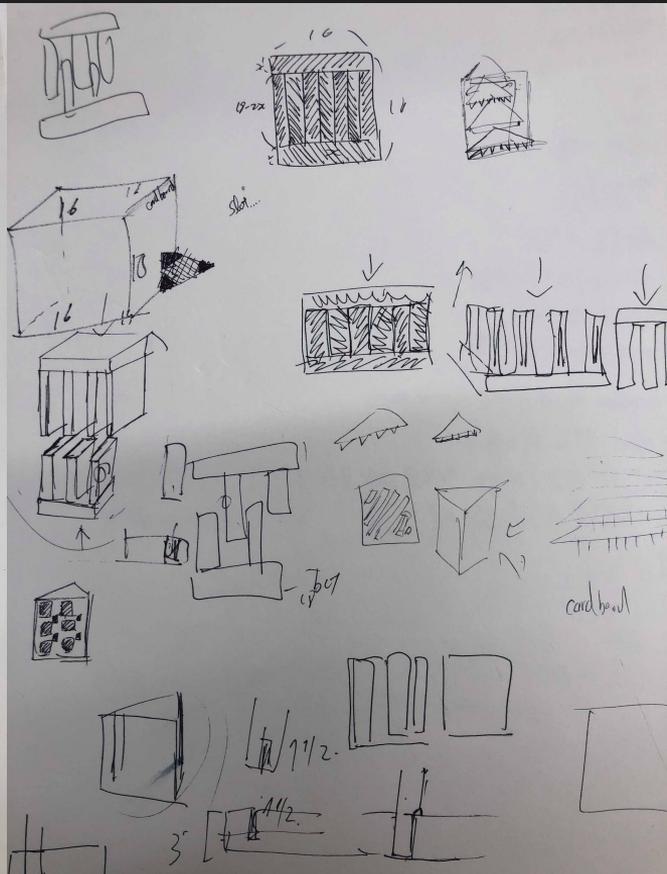
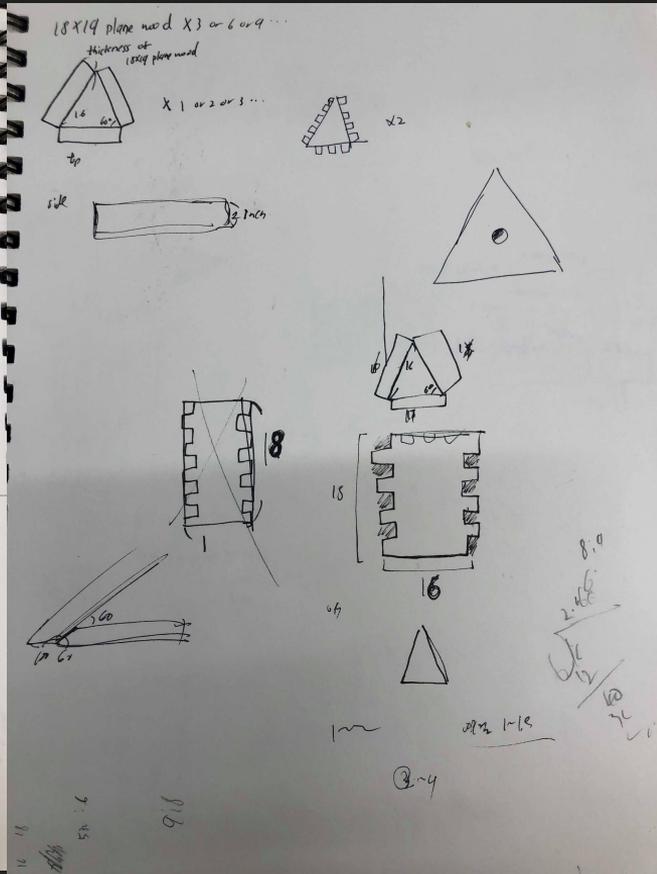
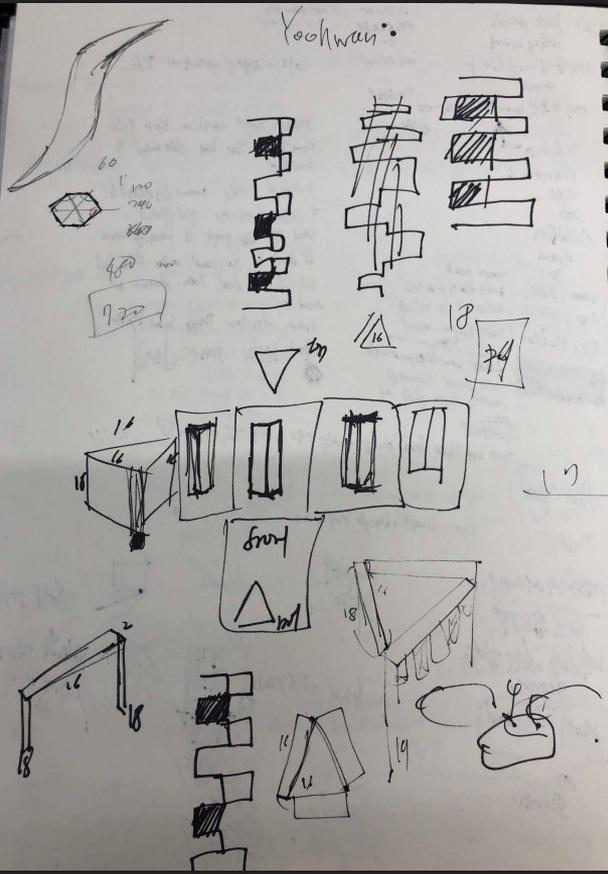
← Exit 42 Street Times Sq Port Authority A C E 1 2 3 7 Elevator to mezzanine 40 Street Broadway Exit →

87

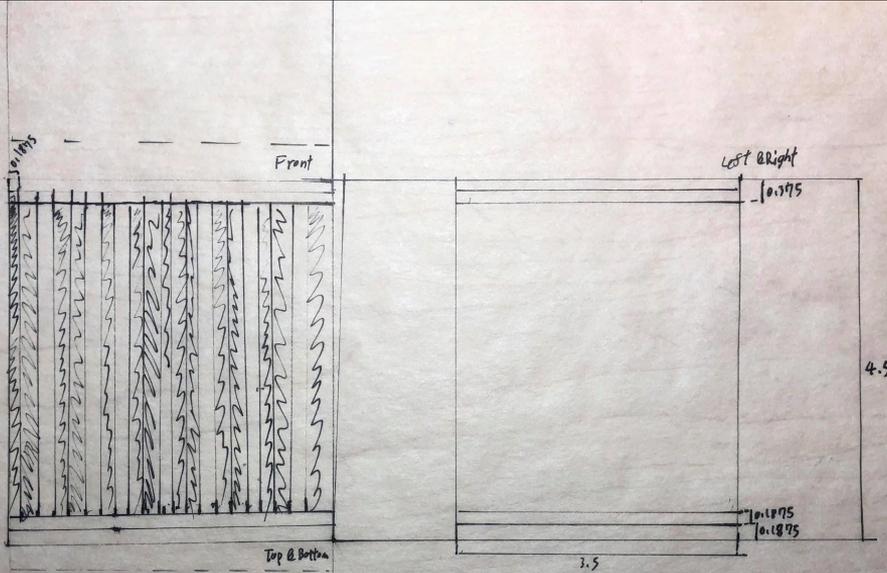
MTA
New York
Transportation

YooHwan Sim

Sketches



Technical Drawing



Toothman sign
Space/materiality
20/8/12/9
Measurement: Inch
Ratio: 1:0.25

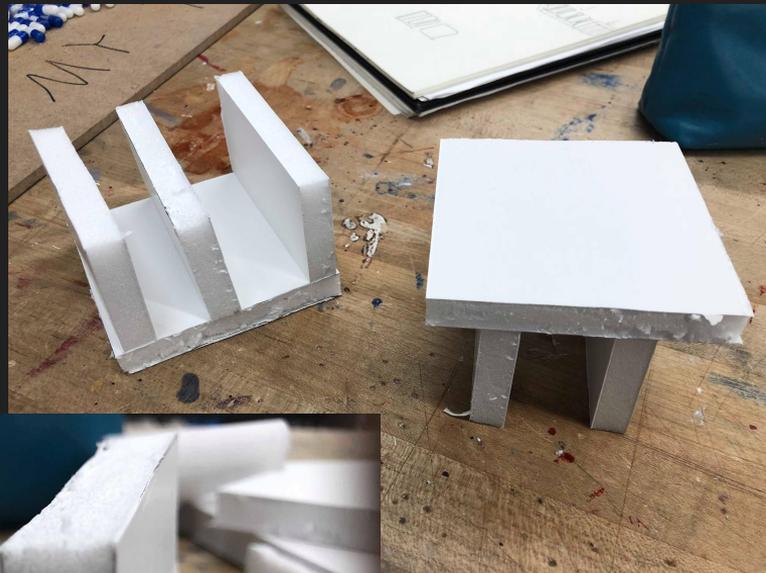
Packing Details

Divided to 2 chairs.

Chair that can be shaken a little to not make people sleep while waiting train.

Simple structure to build and decompose.

Sketch Models



Process

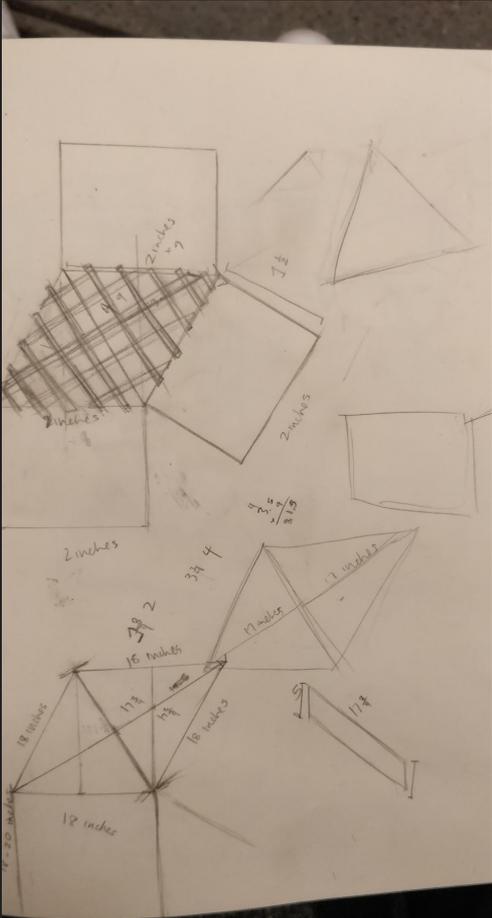
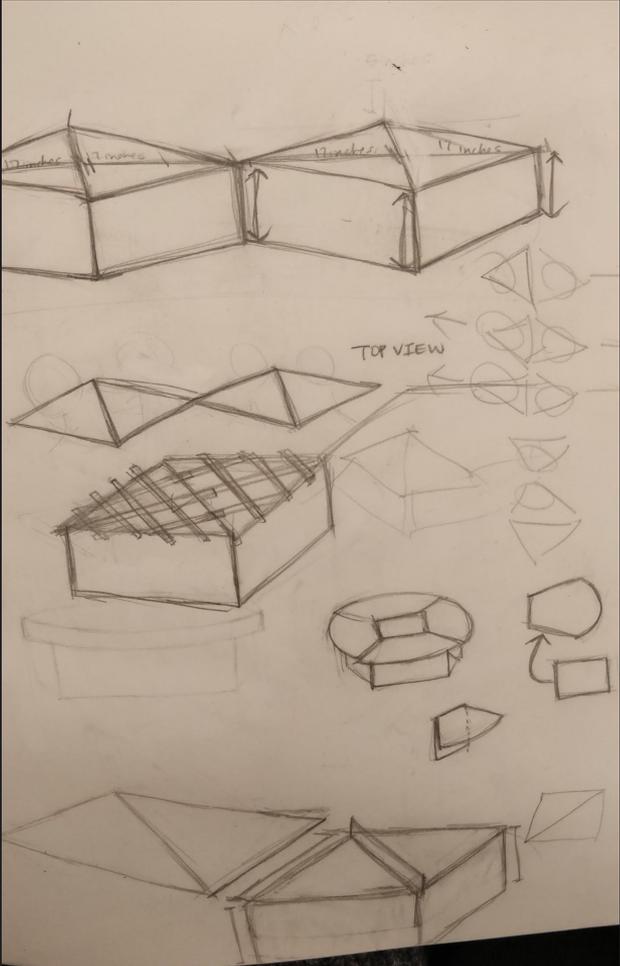


Finished Product

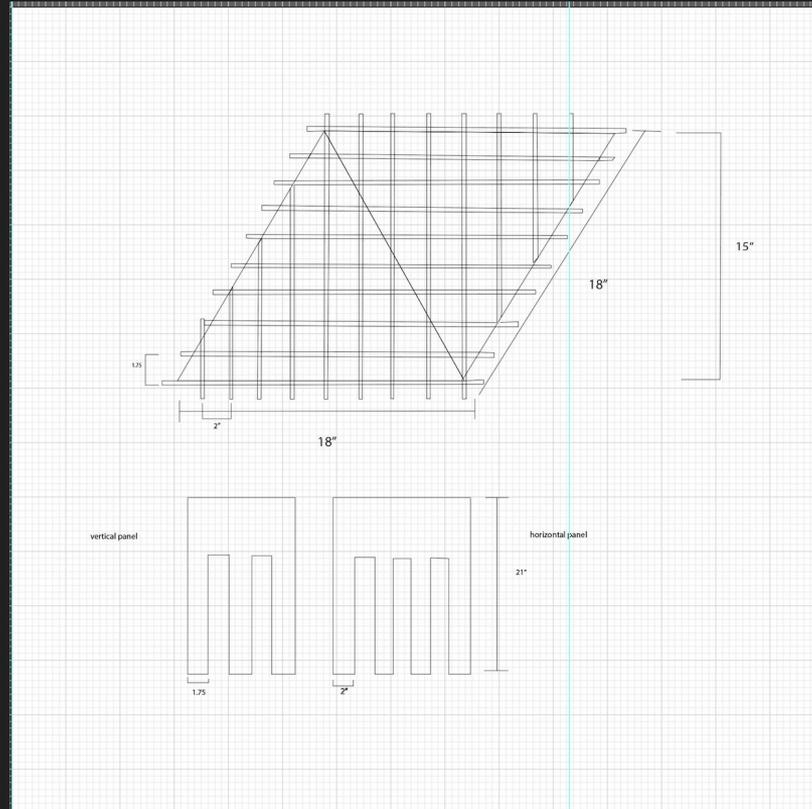


Elle Jo

Sketches



Technical Drawings



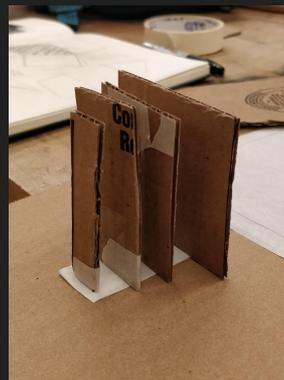
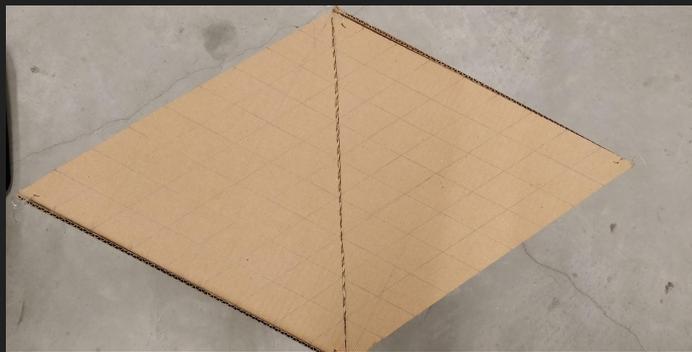
Packing Details

10 horizontal slots, 11 vertical slots

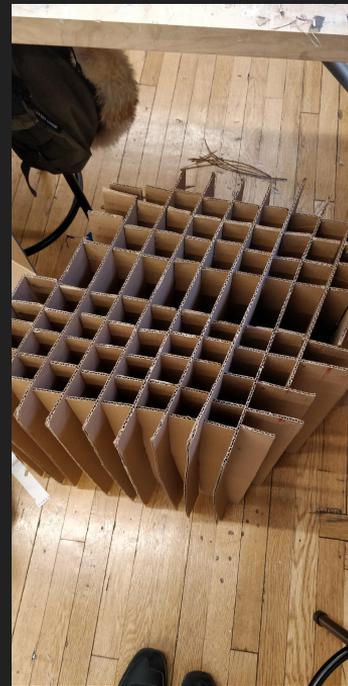
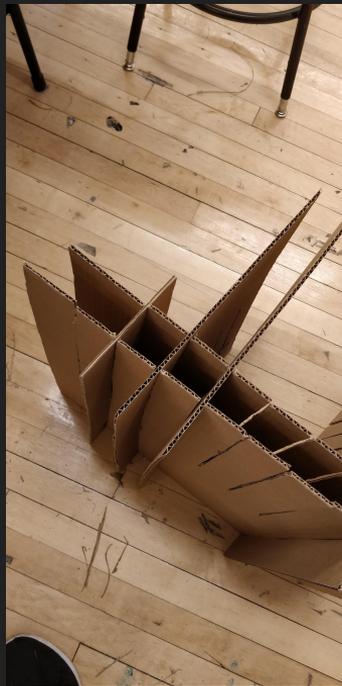
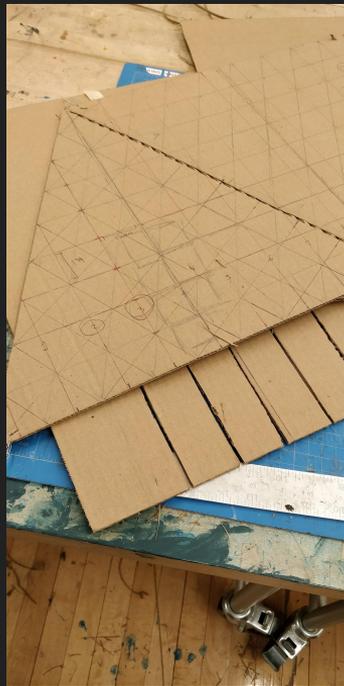
-can seat two people

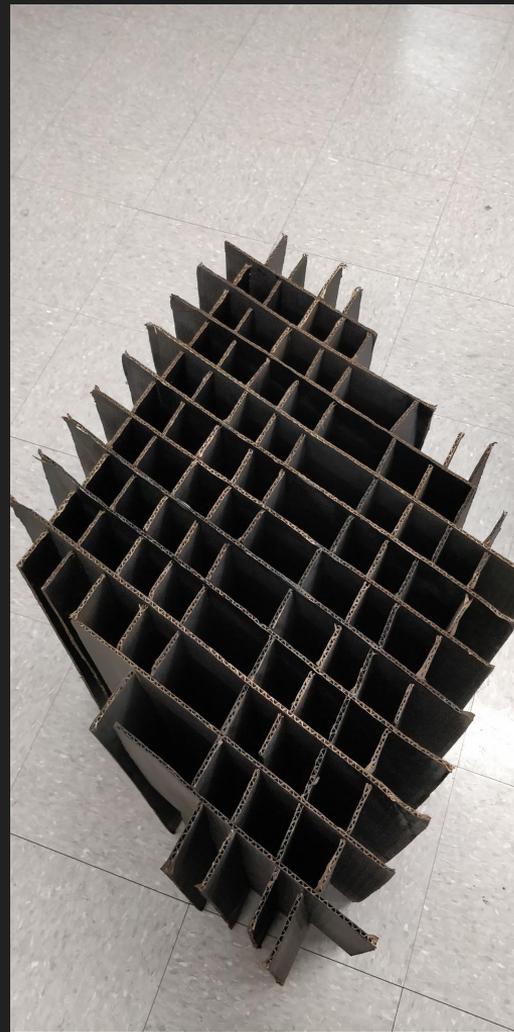
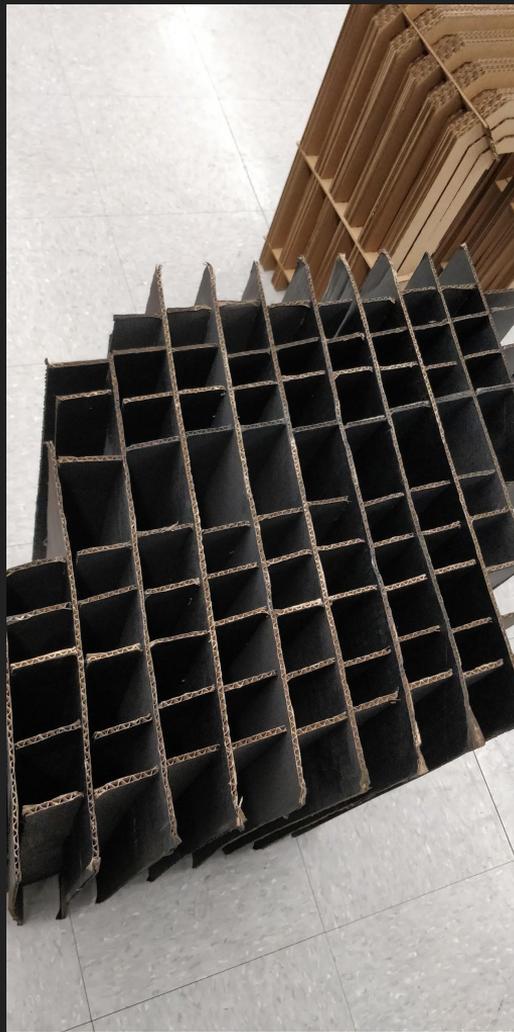
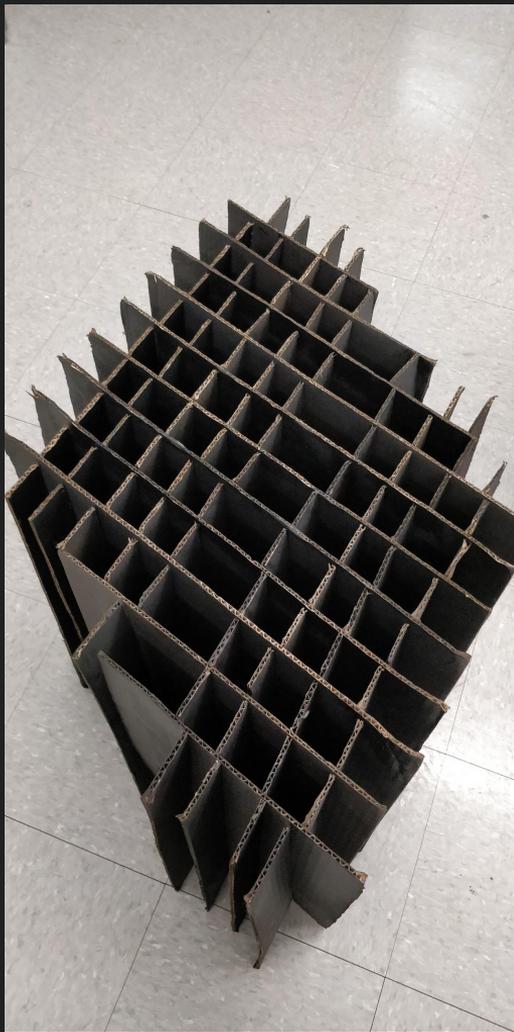
- triangular shaped seats, no restricting armrests or dividers

Sketch models



Process







Finished Series



