

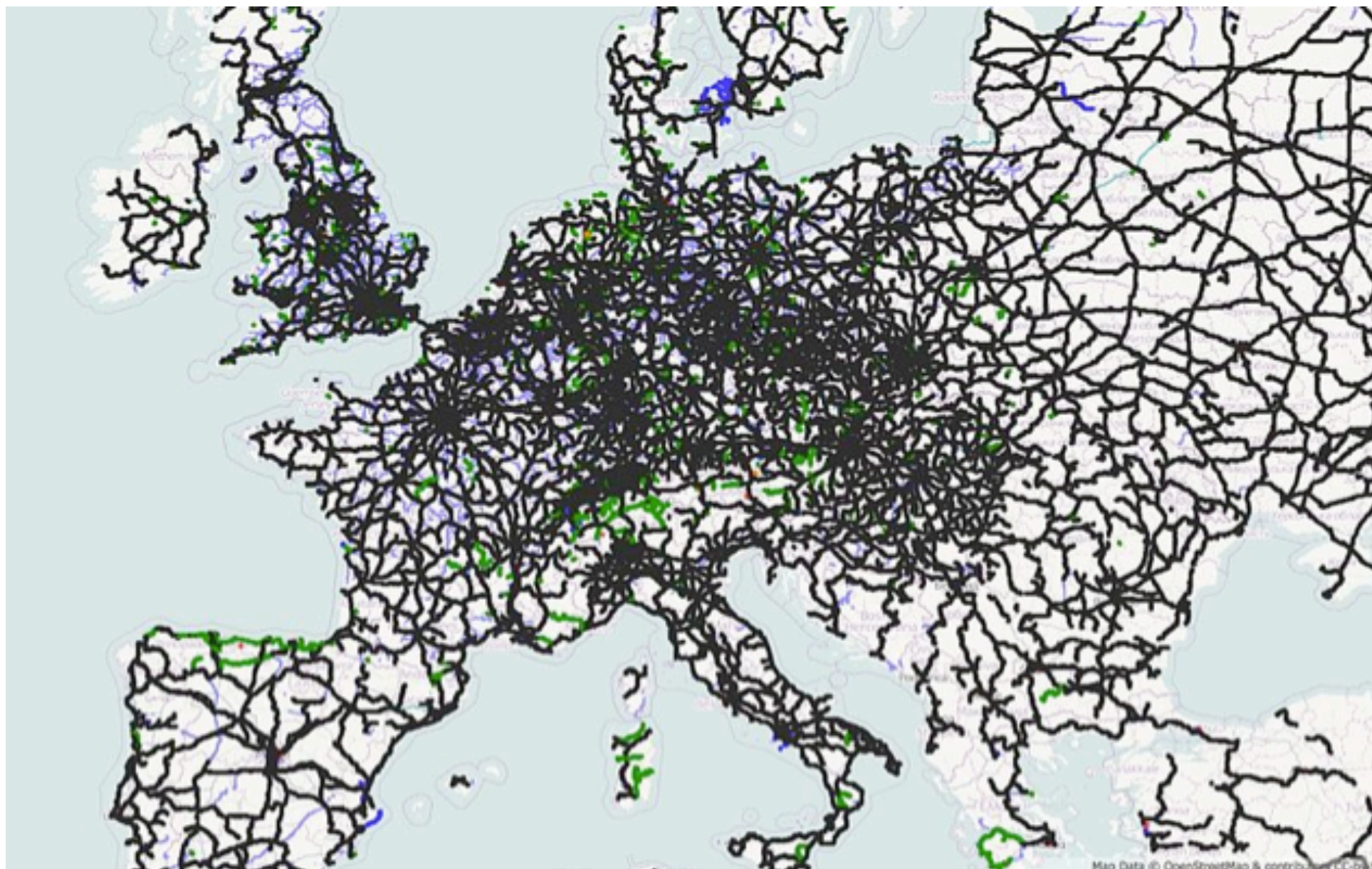


Interior Design Without Architecture

The Train Interior Studio

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Associate Professor
Pratt Institute
dschneid@pratt.edu

Introduction





NATIONAL SYSTEM MAP







Design Process and Project History

The Project Screen





Storefront for Art and Architecture Presents

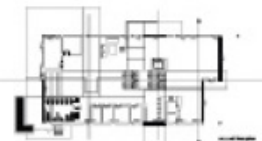
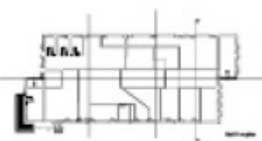
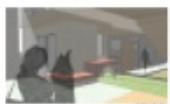
Total Enthusiasm:

INSIDE PRE-FAB

Feb 3, 2012, 7PM

**with Karen Fairbanks, Ferda Kolatan, Britney Malave, Katelyn McKernan,
Christopher Quiles, Ada Tolla, Allen Wexler
and author of *Inside Prefab: The Ready-made Interior*, Deborah Schneiderman**





sustainable envelope: terramar organics

The building is located on 10th Ave. in Tempe near the Phoenix River and is a 100,000 sq. ft. building. The building will house the personnel, design and marketing of Terramar Organics Company.

Terramar Organics is a British firm of sustainable building materials. The location is in the center of a low-rise and urban environment of commercial and public. The building is a low-rise and urban environment of commercial and public.

The concept of this building is based on the idea of the sustainable building and green design. The building is a low-rise and urban environment of commercial and public.

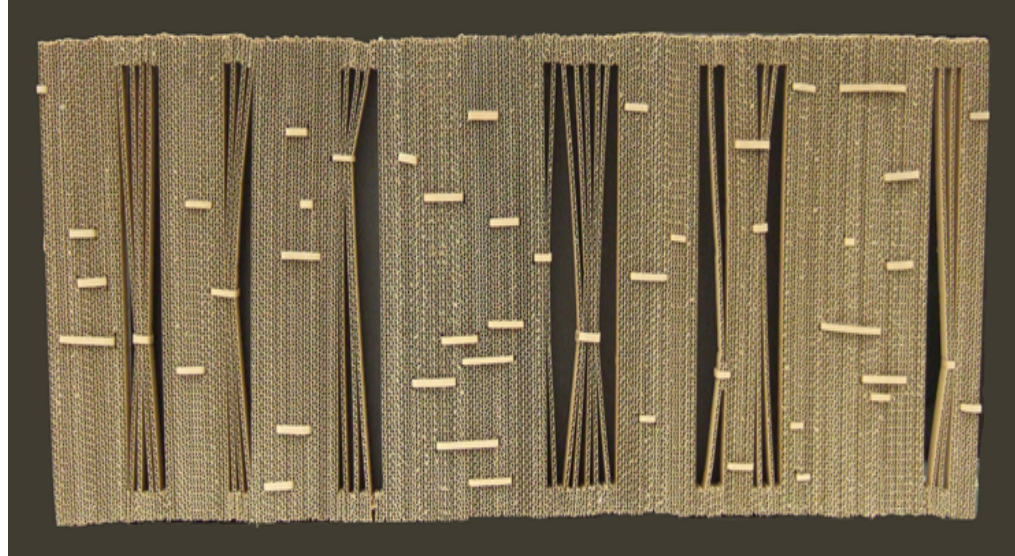
The main philosophy is applied in creating spaces for the building. The building is a low-rise and urban environment of commercial and public.

In order to meet the environmental standards, the building will be a low-rise and urban environment of commercial and public.

Don Lee, Cheryl Larkin, Carol Kalkbrenner



Terramar



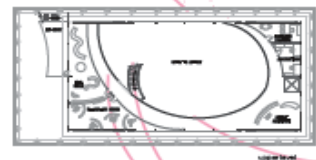
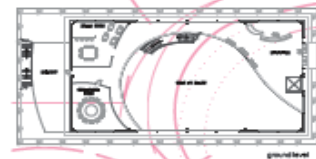
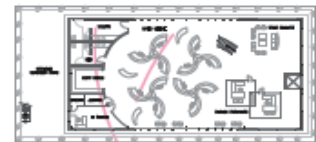
Maxine Sutton: the art of collage.....

is an assemblage of DIVERSE ELEMENTS

a work of art put together from FRAGMENTS

the "RE-USE" of material as components within a
"NEW COMPLEX WHOLE"

a work of visual arts made from an agglomeration of
DIFFERENT FORMS



Floor Plans

Furniture and Materials



reclaimed wood flooring

Green floor, natural fiber carpeting

aluminum chairs

soft seats, recycled paper seats, rebar seats



fresh plan lower level

reclaimed wood chairs

fresh plan upper level

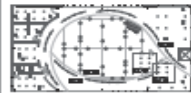
fresh plan upper level

2 sections, Jersey Chair, 27% recycled, 20% post-consumed materials

concrete and reclaimed wood bench

fresh plan ground level

soft walls, recycled paper walls



BCP lower level

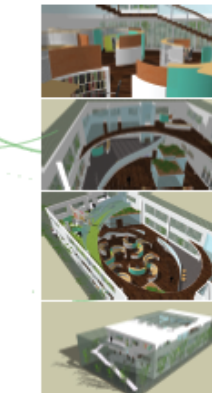


BCP ground level



BCP upper level

Sections



Perspectives



East



North



West



entrance...



plan in collage...



viewing from the mezzanine...



relaxation in idea room...



to the patio...



to ground level working area...

Experiences

Maxine Sutton



Representing the work of Maxine Sutton opened up a door of endless design. She has tapped on the sustainable form and it undoubtedly reflects in her design. Through combining plant, dead forms, reclaimed materials and organic textures, Sutton uses a low-impact image printing method, creating textures that range from organic, painting to embossed, etched, and stamp shades.

Her work uses cultural history, human anatomy, and organisms, it is matched with an array of pigment that speaks delicacy and made "collage."

Studied in London, UK, her products have been showcased in credible art fairs, exhibitions, and are sold in some of the finest boutiques.

Maxine Sutton proves that sustainability and beauty can co-exist.

Maxine Sutton & Green.

Concept

Collage: an object with an object

Our office is designed to communicate the importance of collaboration. A company should strive to create for unique personalities and created work styles. A collage extends far beyond the art, overlapping the environment with human development.

Alternatively, a collage symbolizes the ability to create something new through the reuse of existing elements. The artist Sutton's sustainable values and represent our project's mission to create a "Sustainable Workspace". Our building is eco-friendly not only in its construction but through the company it houses.



Site

Our building is located at the intersection of 4th Avenue and Portland, near the heart of downtown Phoenix. Nearby access to major transportation arteries such as the I-10 and I-17 make it easily accessible from all corners of the valley. Light rail stations 10 & 11 are just east of the building, within walking distance.

The Roosevelt district hosts first Friday, a community artwalk, on the first Friday of every month. Here, Maxine Sutton & Co. can participate by showcasing their up-and-coming products, selling merchandise, hosting live music and providing refreshments.

System Furniture

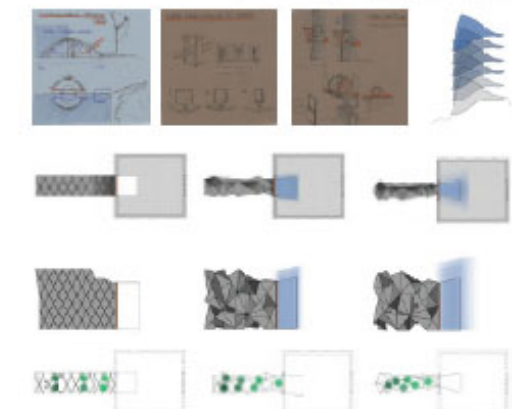
The development of our screen and system furniture also draws on the concept of "Collage: an object with an object".

The screen is weaved of salvaged cardboard strips, highlighting the interplay of light and shadow. When one looks directly through the screen the contrast of a wall is revealed, functioning as a privacy curtain and moreover, a visual experience.

The system furniture was stimulated by Sutton's use of amorphous forms and diverse textures. Each unit is composed of an all-wood outer panel that uses a nesting method to maximize storage space. Inside lays a glass wall that may be used as a writing surface or for extended privacy, a cork memo board and additional shelving. Working our screen, we have created a level of privacy in which each individual is welcomed by their panel but not completely obscured.

Below the desk are three rotational drawers that fan out allowing the user to access them collectively if necessary. Above this system is a small desktop that pivots 180 degrees along the screen rails. When three people rotate the element in unison the desks fit together in a puzzle-like formation, resulting in a synergistic work space.



[illegible]

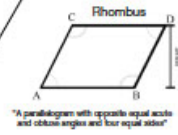
1. TETRIS PULL + PUSH

CHANEL LAI
+ YULIYA SUMINA
DIRETTORE E VICE DIRETTORE
PIRELLA GÖTTSCHE LOWE ASSOCIATES SPA





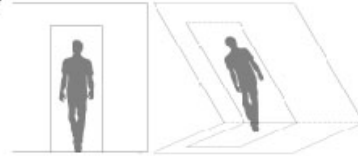
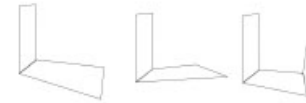
Modular Threshold



"A parallelogram with opposite equal acute and obtuse angles and four equal sides"

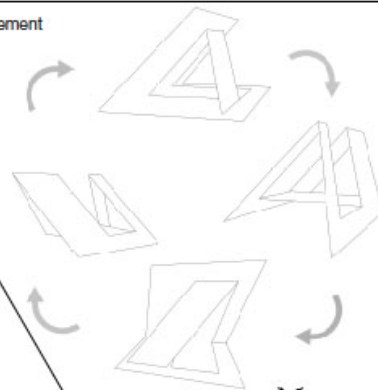


Reflection Across A Plane

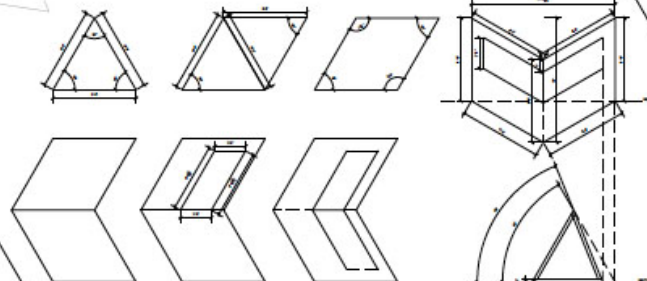


The word "rhombus" comes from the Greek (rhombos), meaning something that spins, which derives from the verb (rhemb), meaning "to turn round and round"

Parallel Movement



Modular Unit



THRESHOLD

ASHLEY HSU
YANZI ZHO
LIAM DUBLIN



Sketch Studies

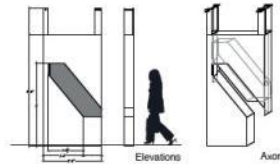


Scale Studies



Mock-Up

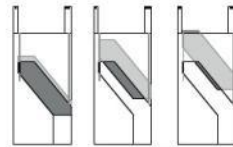
PROCESS



Elevations

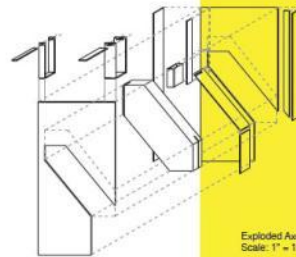


Axon



Section Sequence

Scale: 3/4" = 1' - 0"

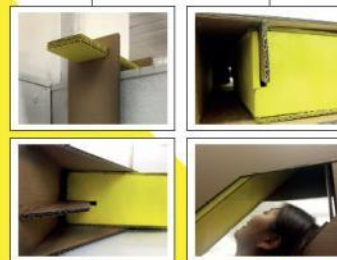


Exploded Axon
Scale: 1" = 1' - 0"

DRAWINGS



Experience



Details



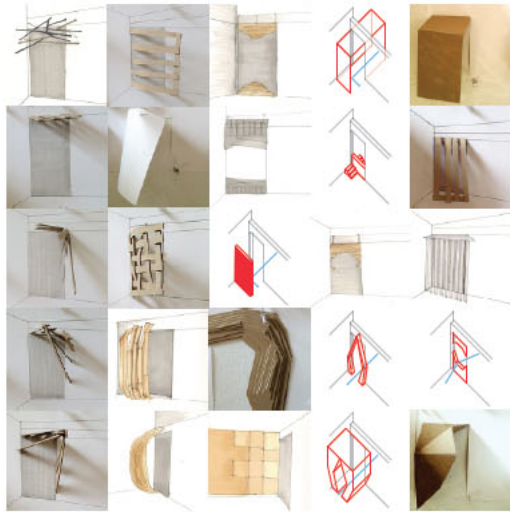
Sequence

FINAL MODEL

THRESHOLD: REDEFINING THE STANDARD THRESHOLD EXPERIENCE

25 SCHEMES: IDEA GENERATION

CONSIDERATIONS: PRIVACY, DIRECTIONALITY, TEXTURE, LIGHT, EXPERIENCE



DESIGN V - FALL 2012
SHUBHI AGRAWAL & GARRETT CHAN

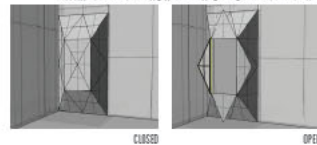
STUDY MODEL

FORCED INTERACTION TO ENHANCE EXPERIENCE OF THRESHOLD
DIRECTIONAL TRIANGULAR SHAPES POINT TOWARD OPENING
PLAYS WITH LIGHTING CONDITIONS WITH USE OF CUTOOT SHAPES

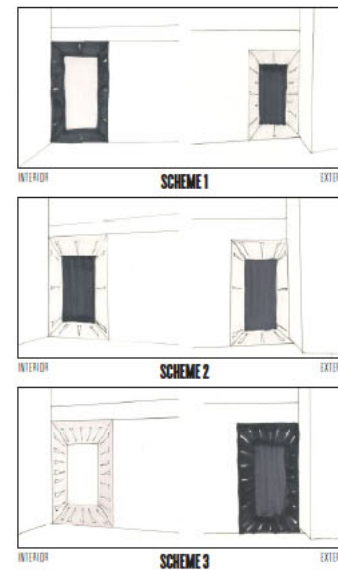


RHINO MODEL

EXTRACTION OF IDEAS AND GOALS IN SIMPLIFIED FORM



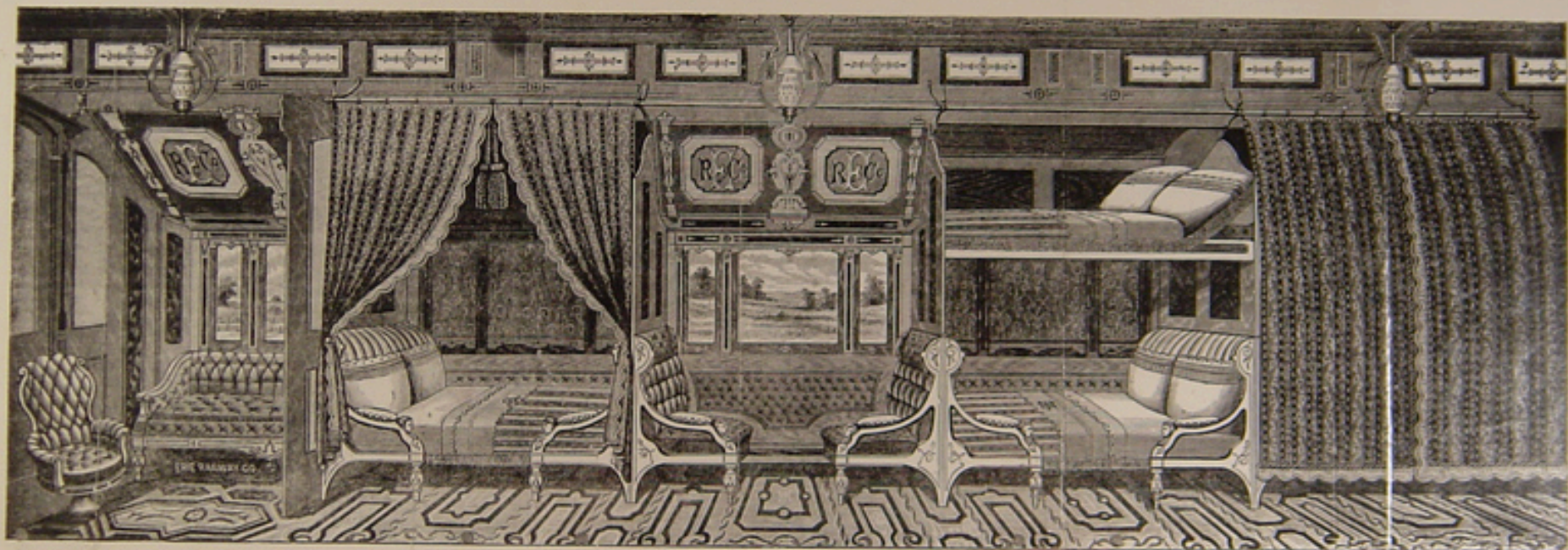
THRESHOLD: INVESTIGATIONS & FINAL MODEL



The Train Design Project

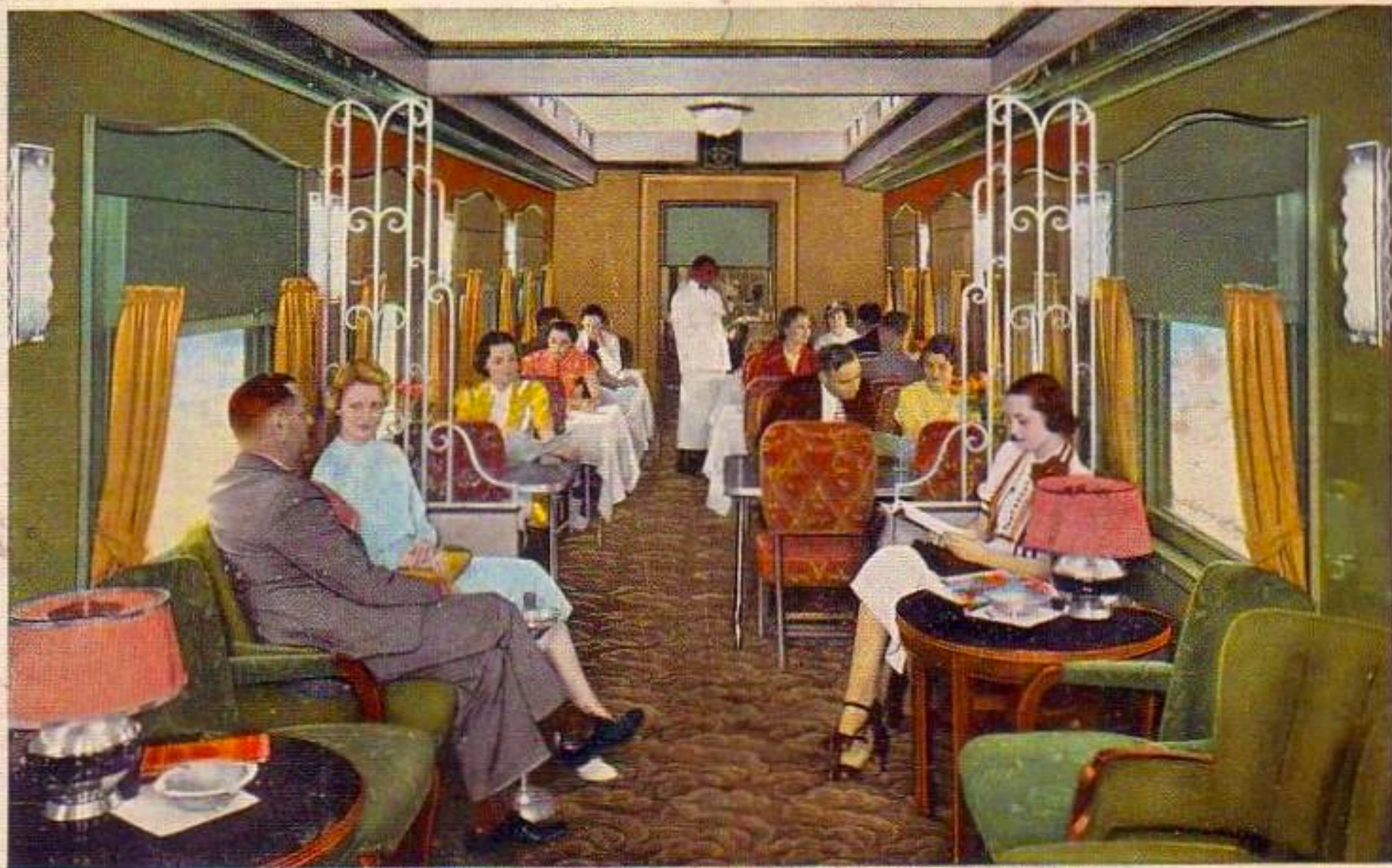
AMTRAK®





INTERIOR VIEW OF PULLMAN THROUGH DRAWING ROOM SLEEPING COACHES, running DAILY between CHICAGO, CLEVELAND, NIAGARA FALLS, BUFFALO and NEW YORK, via ERIE RAILWAY.

Thos. N. Abbott, General Passenger Agent



CAFE-LOUNGE CARS IN SERVICE, DESIGNED AND BUILT BY C & E I RY.

6A476







The Designing The Train Interior



Dining Before= 26 Dining Now= 72

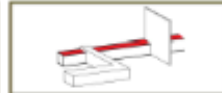


DINING CAR: Composed of a modular system that is clean, durable and it can easily be replaced when necessary. The Dining tables transform from your typical tables during breakfast, lunch and dinner to a coffee table. This gives the passenger a casual yet comfortable place to go to when they don't wish to be in their seat. At the Bar there is plenty of stools on a new track system that are easy to pull out and take a seat at or put back in for extra standing room. The Lounge area is a great place to socialize with a little more comfortable yet durable seating and a little privacy from the bar area you are able to put up a table from the floor and plug in your electronic devices.

A Modularized Building System- Easy for Amtrak to assemble and replace when necessary.



Table to Coffee Table.



Kit of Parts.



Lounge Tray.



Using Train Power & Materials

Light Emitting Diode: The material uses organic light emitting diodes or OLEDs. The OLEDs run on very low voltage and are as efficient as energy saving bulbs. The energy will used to power the illuminated walls will be taken from stored energy produced by the motion of the train. The wall coverings is constructed by "sandwiching" a number of layers together that combine to produce light. The back layer is a silver based system that conducts electricity, while the layer above this contains phosphorous pigments that light up. On top of this is a flexible, transparent ITO conductor layer, with regular wall covering placed on top to act as the final, outwardly visible layer.

Switchable Glass: is used for all of the doors on the train to create privacy. The glass is electrically switchable meaning that, at the press of a button, it changes between clear and opaque states. This variable effect is low-voltage, high impact and suitable for a variety of applications such as privacy, partitioning and heat management.

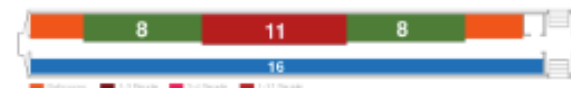
Powerflex: automatically charges electronic devices when placed onto it. Key areas of application include: pushbars, table covers, and racks. It freely does have mobility to where the device is, it is ideal location solution for meetings, as participants will be able to charge and use their laptops and tablets without using power leads or adapters.

PaperStone is the Greenest Architectural Surface on the Planet. PaperStone's made from 100% post-consumer recycled paper that has been saturated with our proprietary Peltex chemical, extra and selected natural pigments on our trade floor. After forming to length, air-dried sheets are stacked and moved into a press where they are fused together under heat and pressure. Paper sheet count determines the thickness of the finished panels. Its non-porous surface provides a lifetime stain resistance and a 100% virtually no-water. Surface cuts or marks may be sanded or rubbed out with an abrasive pad and treated with PaperStone Primer.

Green Electric Automation Window System: Maximum indoor comfort can be achieved through building automation systems which regulate and allow users controls management over thermal control and light levels to suit individual needs. The window shades can be controlled from the passengers seat and is powered by the solar film located on the exterior of the train. The dividing panels between each Rest Room is controlled the same way from the same energy source. A recycled used is recycled soundproofing material to minimize noise from the train and to maximize comfort.

Dining Car.

Sleeper Car Before= 32/ Coach Car= 57 Sleeper Car Now= 43



Sleep up to 11 in the Red Rooms.

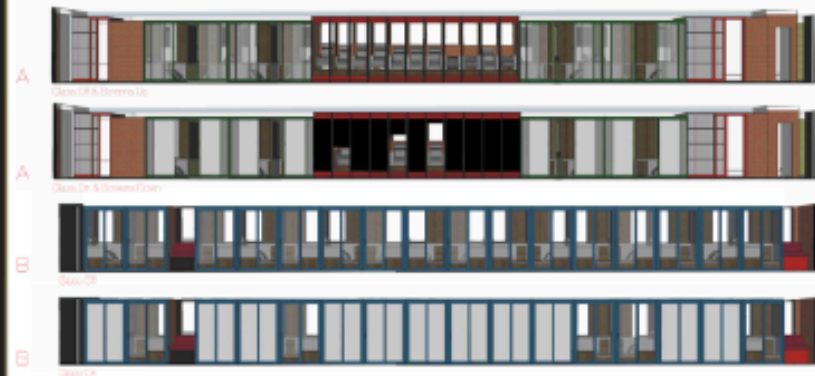
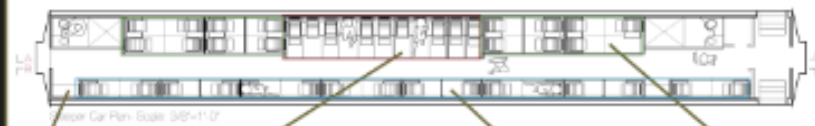


SLEEPER CAR: A hybridation of the original sleeping car and the coach car. This new design gives you as a passenger many options while sleeping. You can fold out as comfortable as you can with group up to eleven people. This is possible with the foldable wall fabric, red partitions. As you lay back in your Zero Gravity chair that rotates forward slightly, that pushes you into the bed comfort position, and you are able to watch or project your electronic devices or videos onto the fabric partitions.

Room Systems.

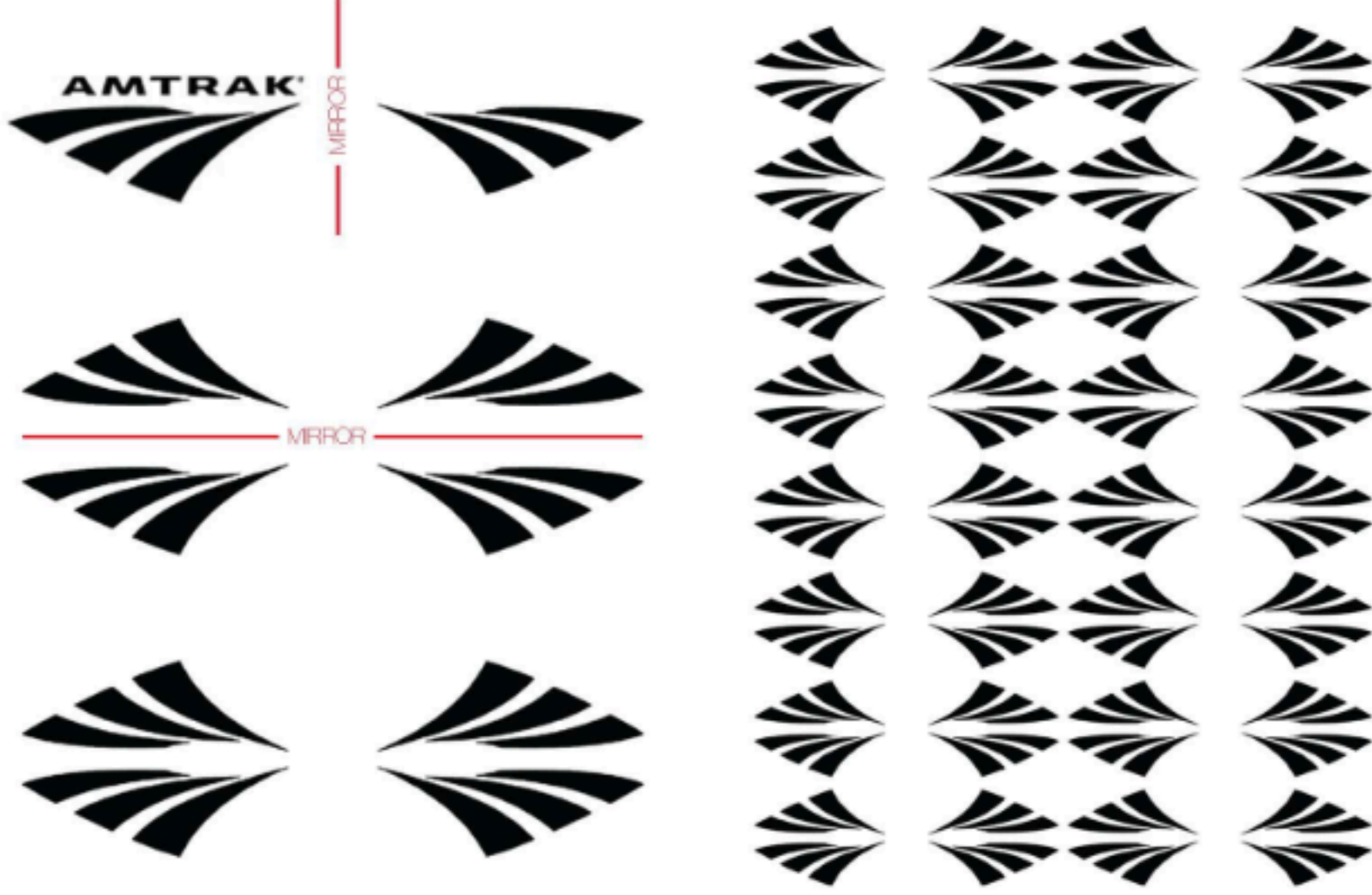


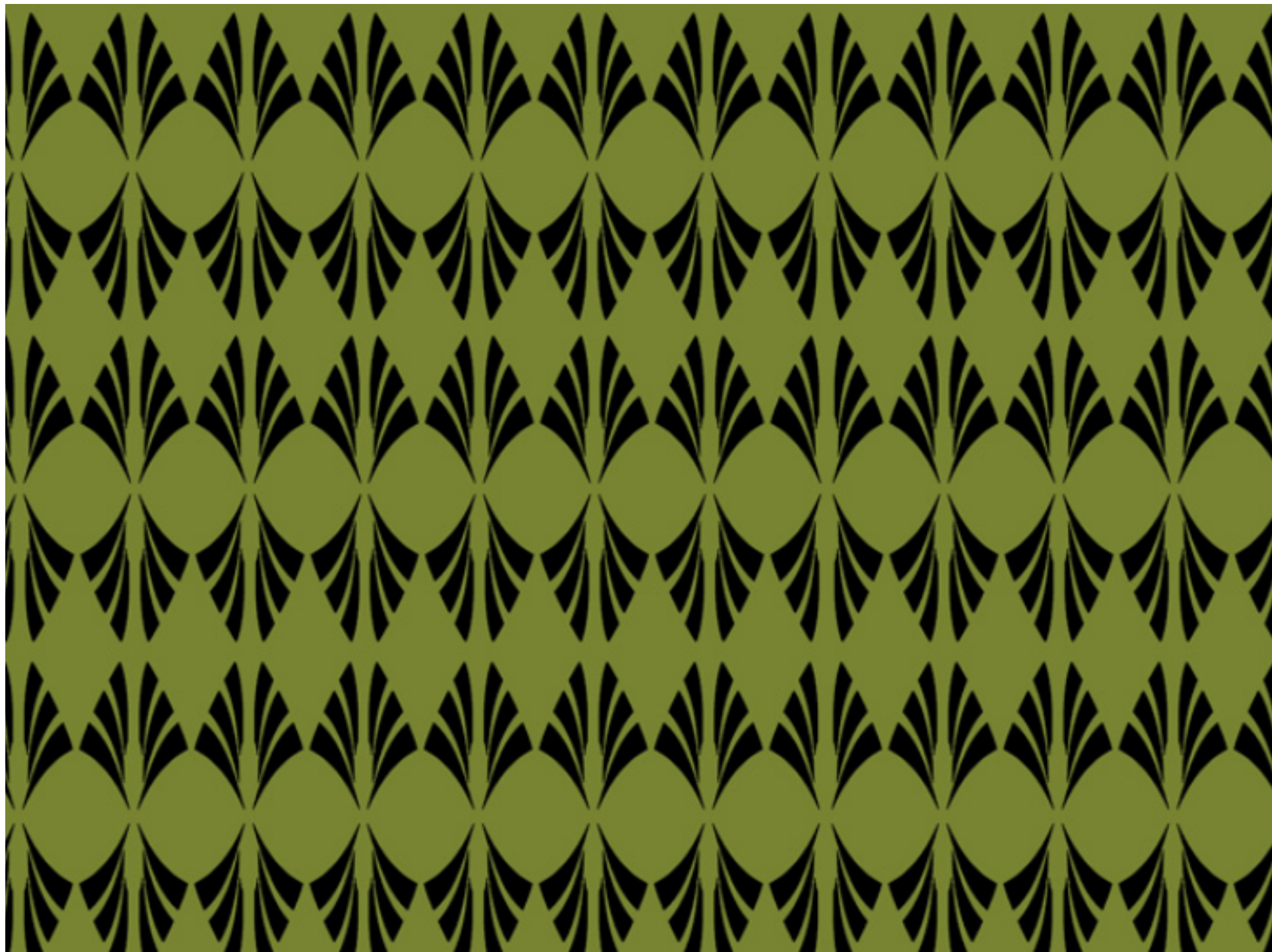
Chair Positions.



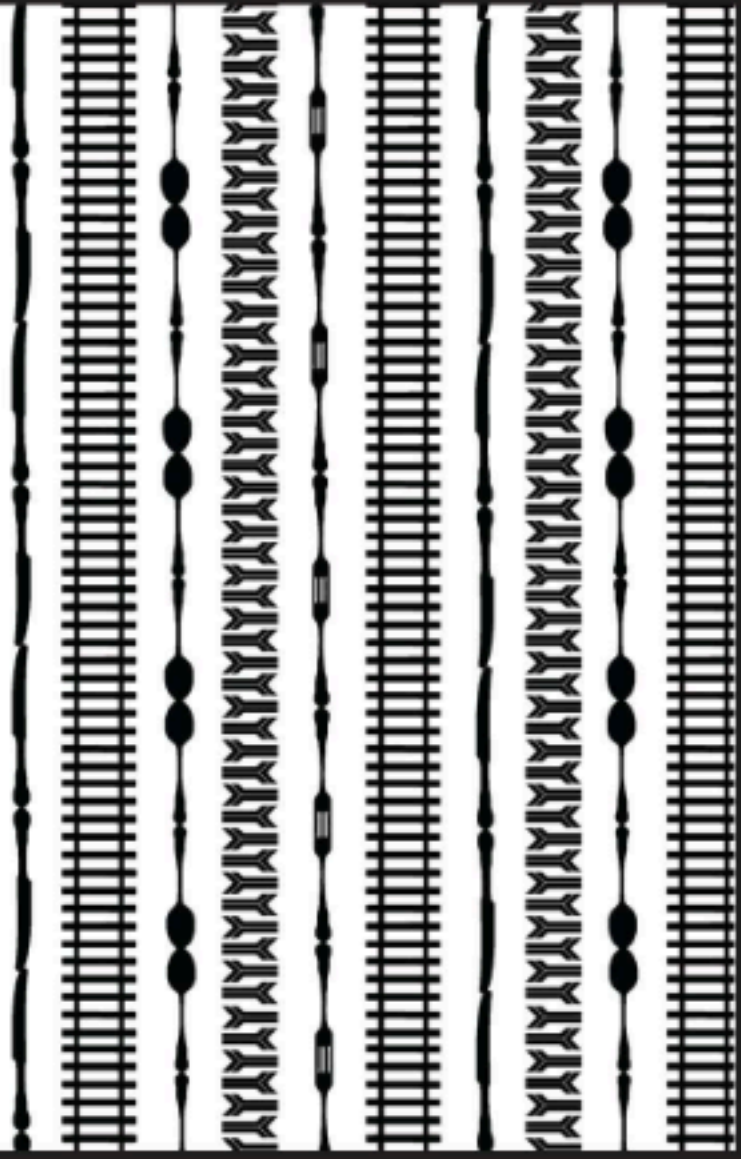
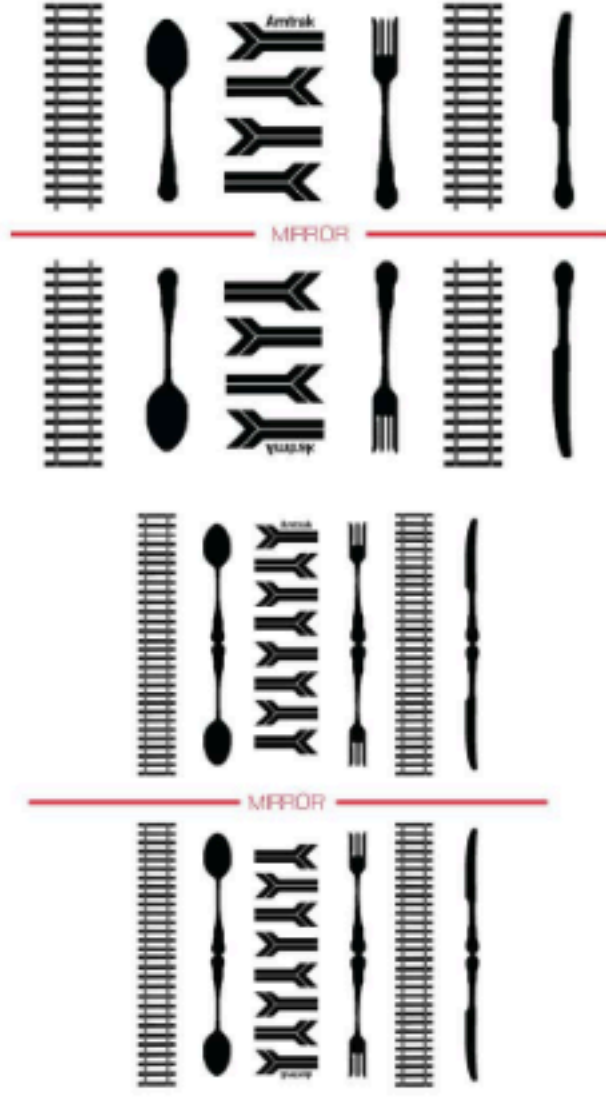
Sleeper Car.

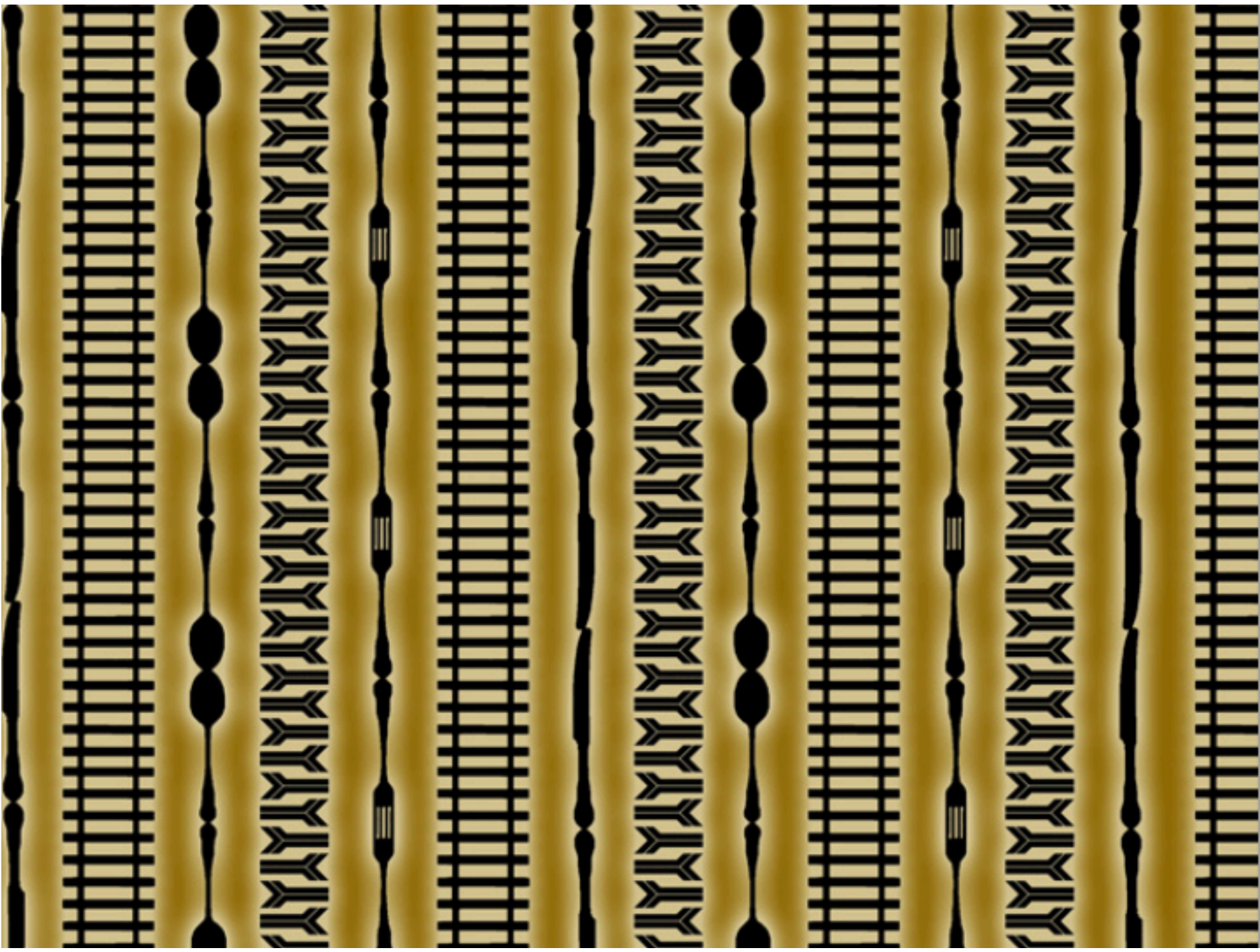
Sleeper Car Pattern Diagram



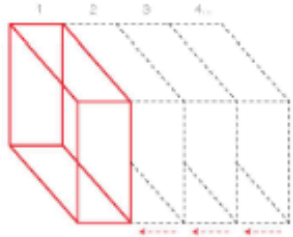


Dining Car Pattern Diagram

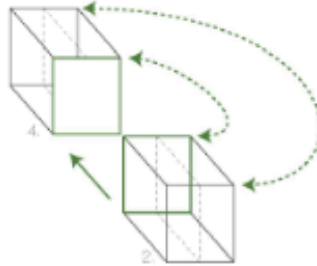




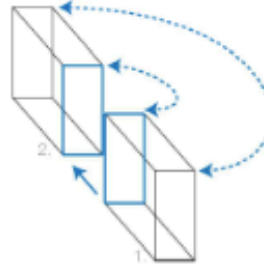
Room Systems.



RED ROOMS: 1-11 PEOPLE



GREEN ROOMS: 2-4 PEOPLE



BLUE ROOMS: 1-2 PEOPLE

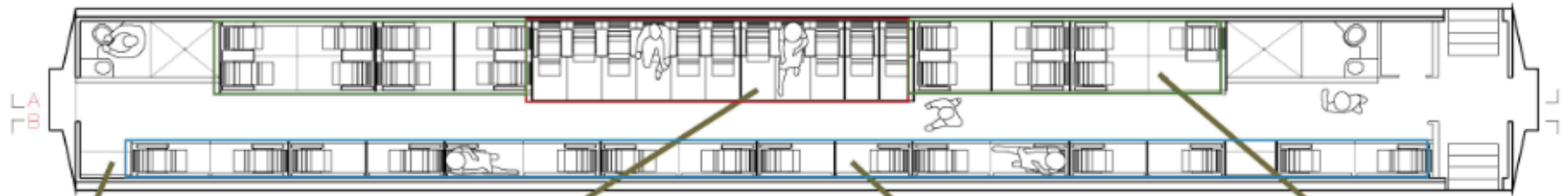
Chair Positions.



ST.



SLEEP.



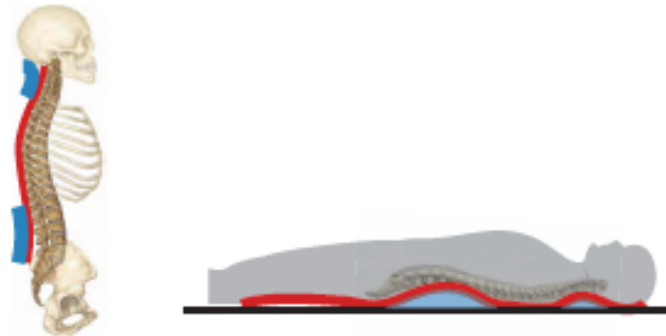
Sleeper Car Plan- Scale: 3/8"=1'-0"





CONCEPT:
FLEXIBILITY & COMFORT

- How did these seats become standard?
- Why can't people have comfort
(SEATS CONTOUR TO BODY>ERGONOMICALLY
DESIGNED) and value?
- How can seating be revamped for solo travelers,
couple/2 people, 3-4, 5-6, 7 or more?
- How can you also apply concept to dining car?



(chiropractic-singapore.com)

-NATURAL CURVE OF SPINE - Neck and lower back curve in

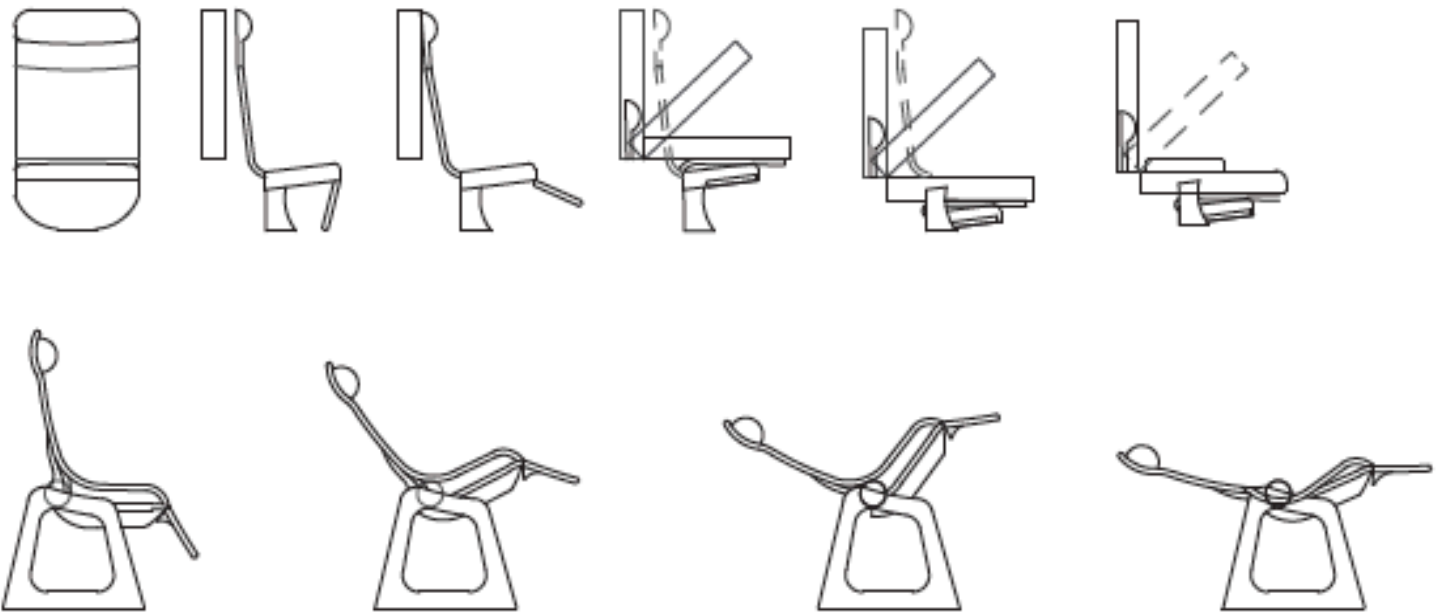
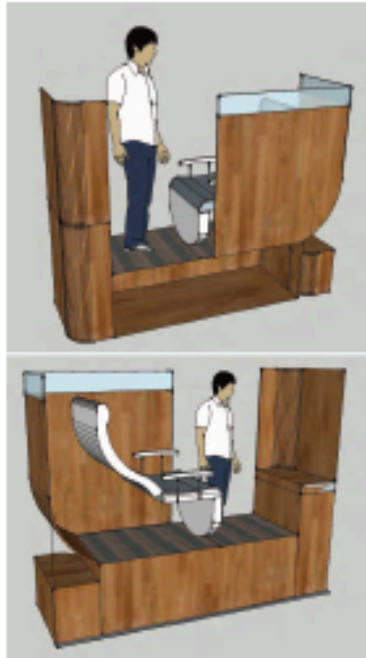


-Illustrations of improper and proper neck alignment

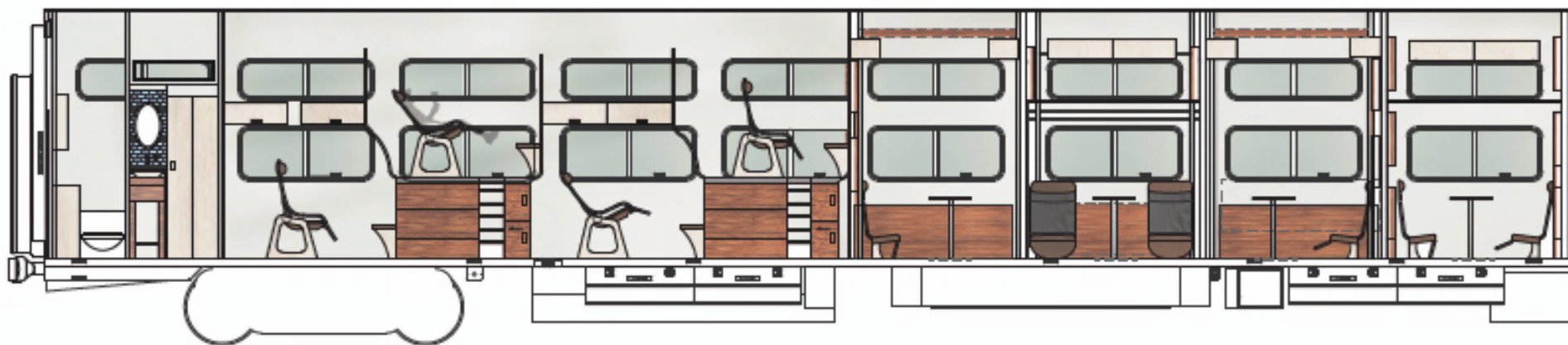
(www.fbpc.co.uk)

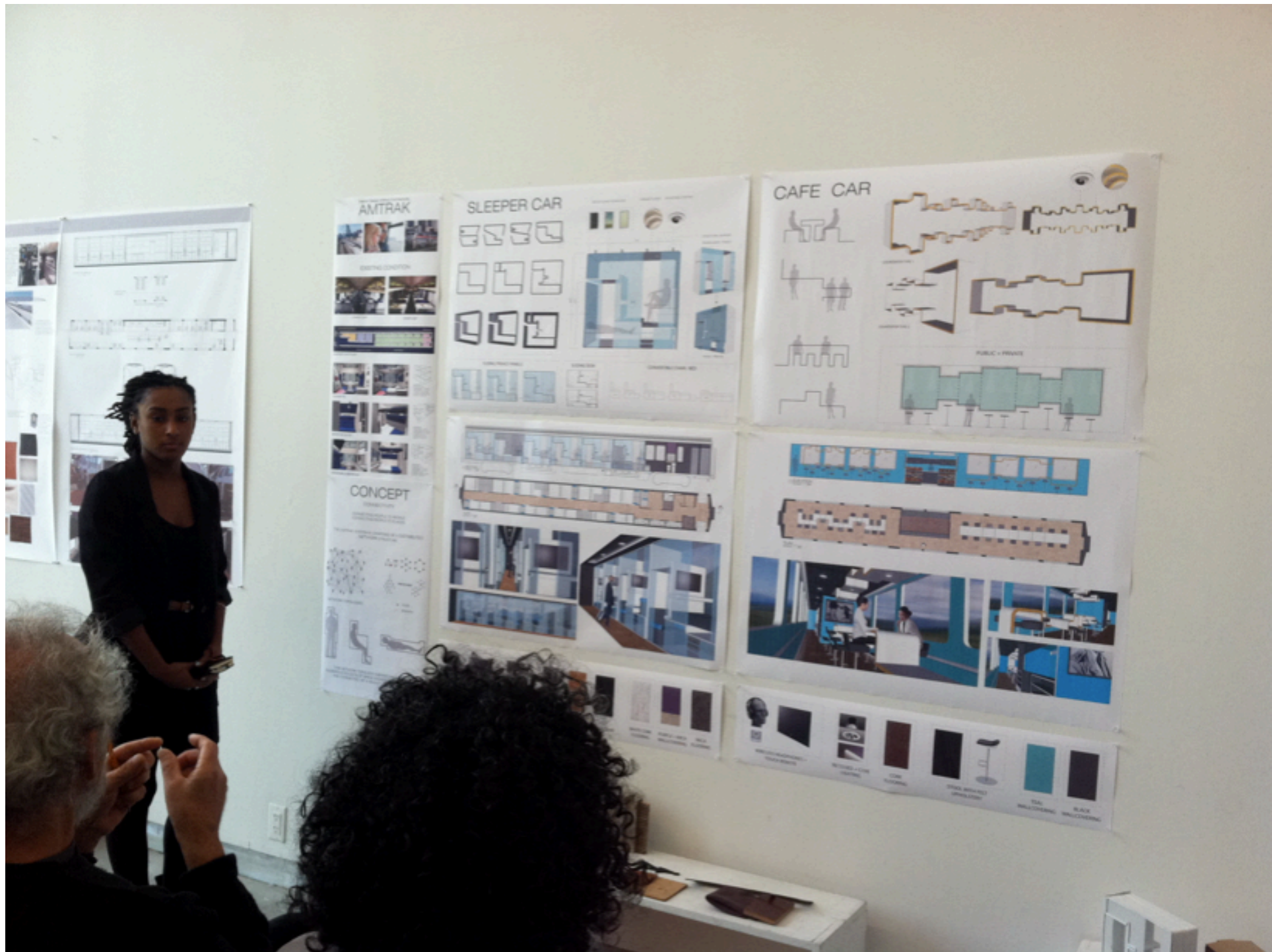


-Illustrations of ideal sleeping positions (www.fbpc.co.uk)

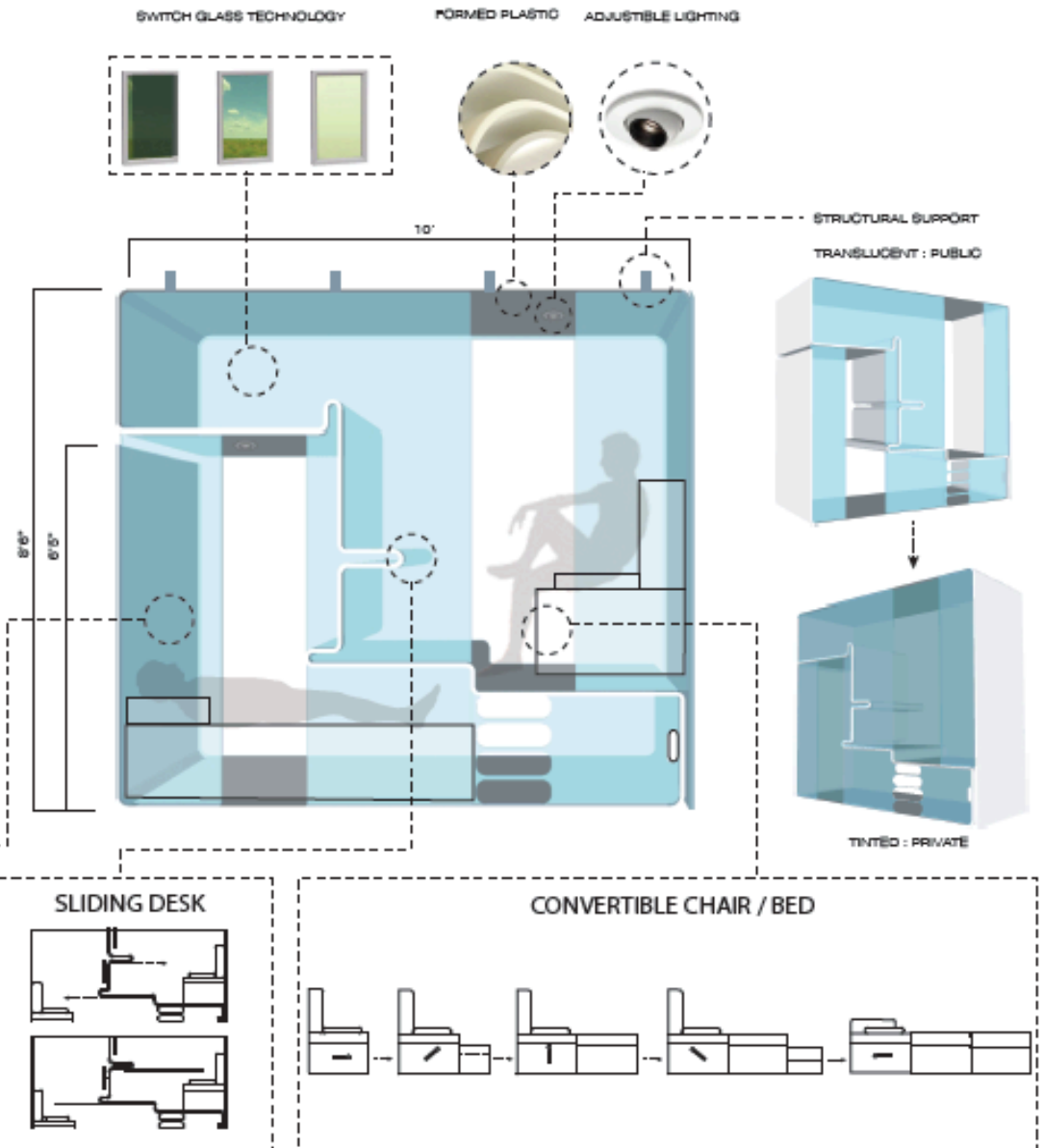
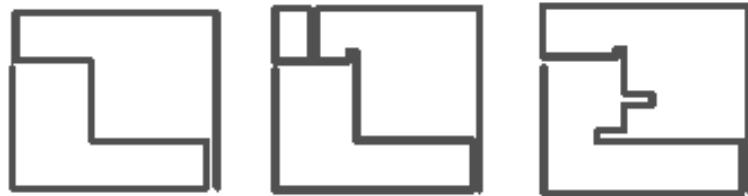


CHAIR DIAGRAMS

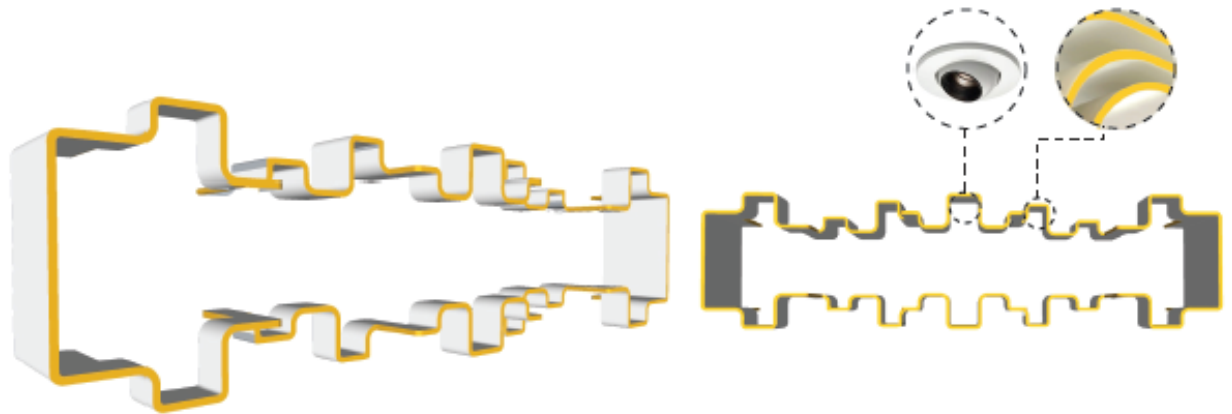
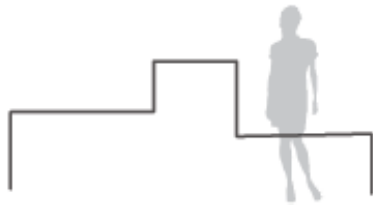
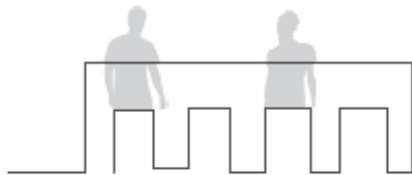
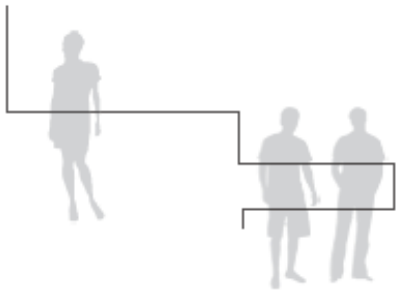




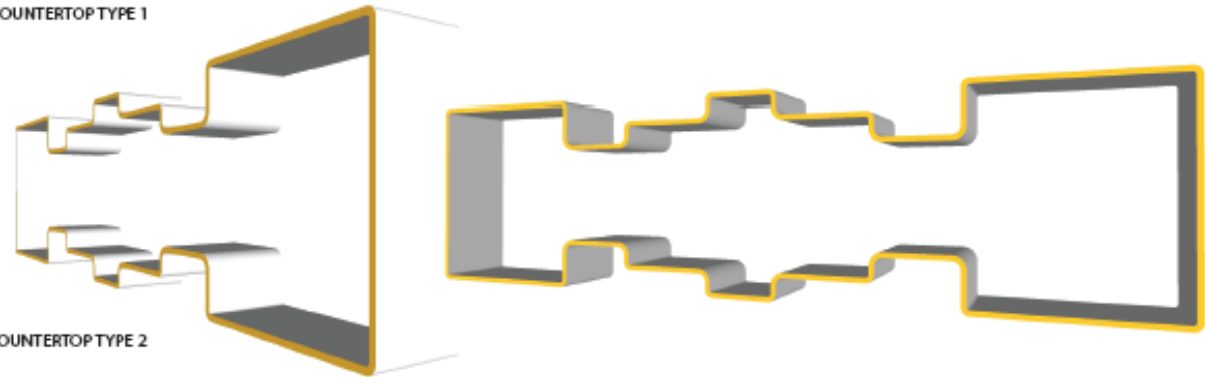
SLEEPER CAR



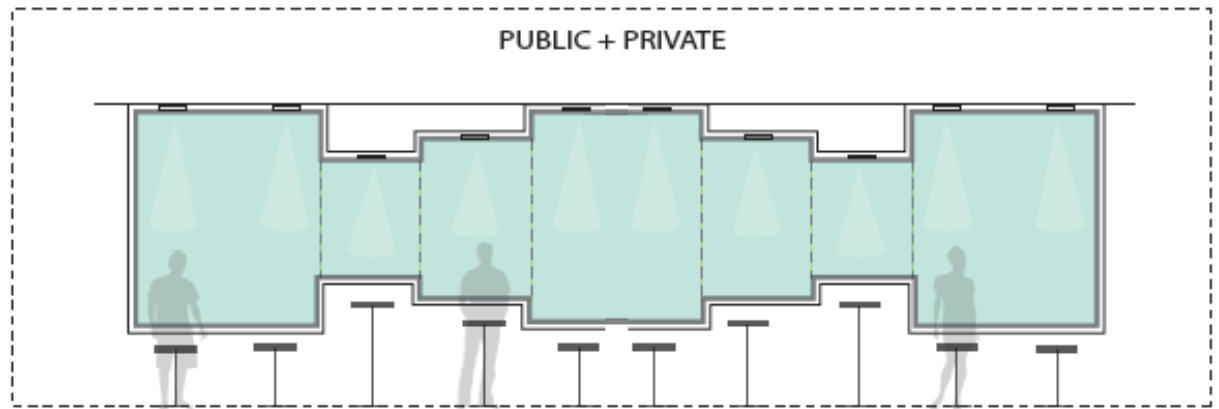
CAFE CAR



COUNTERTOP TYPE 1



COUNTERTOP TYPE 2



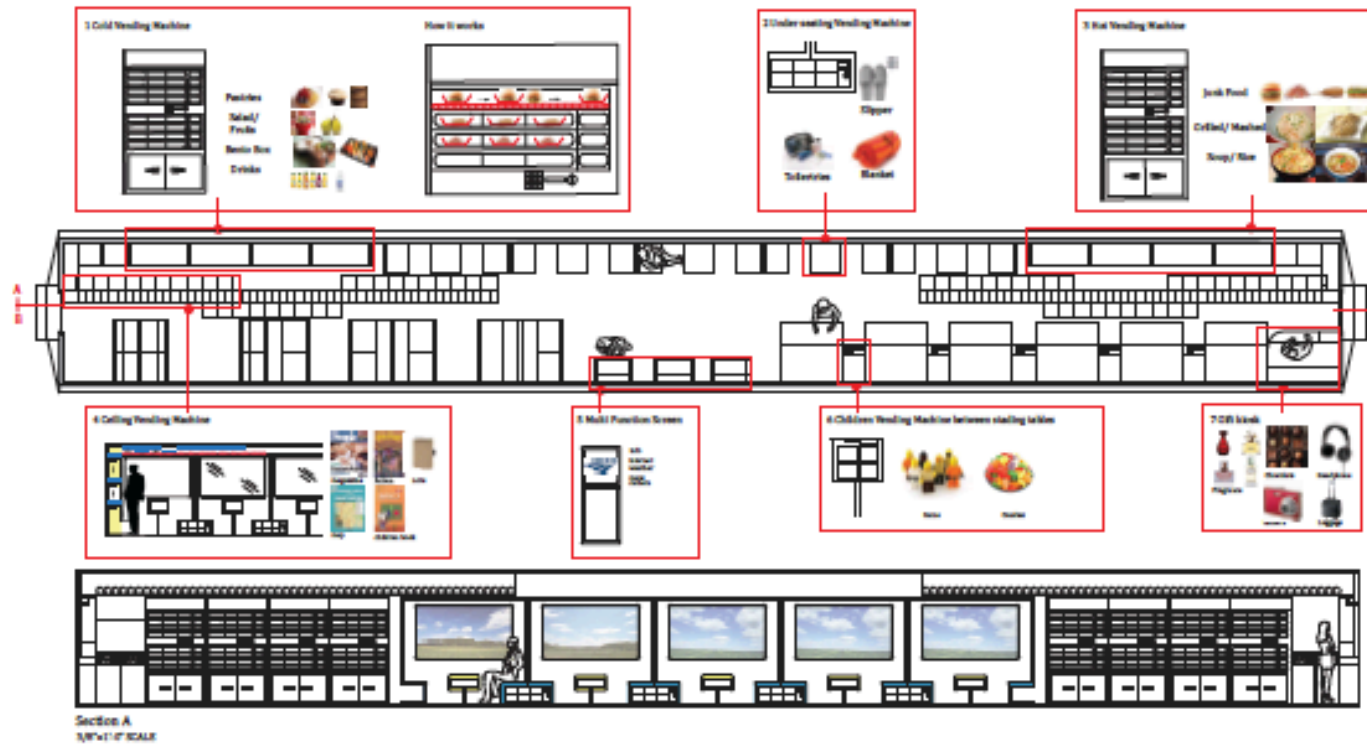
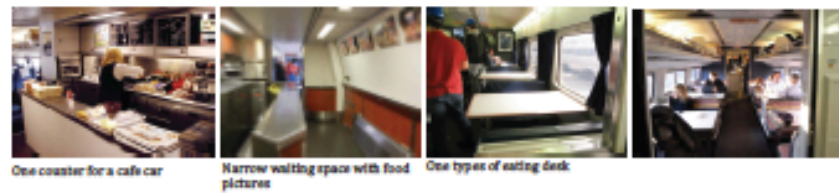


Precedent Cafe Car Analysis

Amtrak has a cafe car, which has a small kitchen. When passengers want to buy food, they need to be in a line at small space. All the food are unshown and only a few pictures are posted on the wall. People want to buy more when they see actual product and display. Therefore, I want to give more choice and entertainment for passengers that I designed different vending machine system that they can enjoy of their shopping.



Precedent Cafe Car Analysis



Interior Rendering



Seating for group



Seating for two



Cafe car



Plan



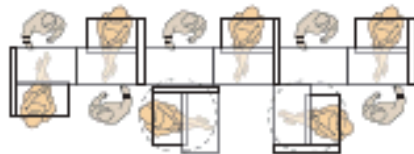
Section 1



Perspective 1



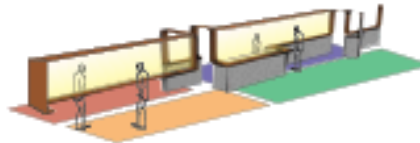
Perspective 2



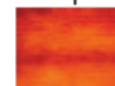
Rotating bar stool



Bar Table as a continuous piece to serve multiple functions



White Leather Jagorta wood



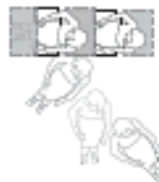
Bio plastic



Piezoelectric



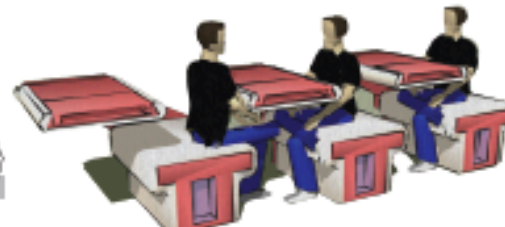
Spice Airline Galley



Flexible seating



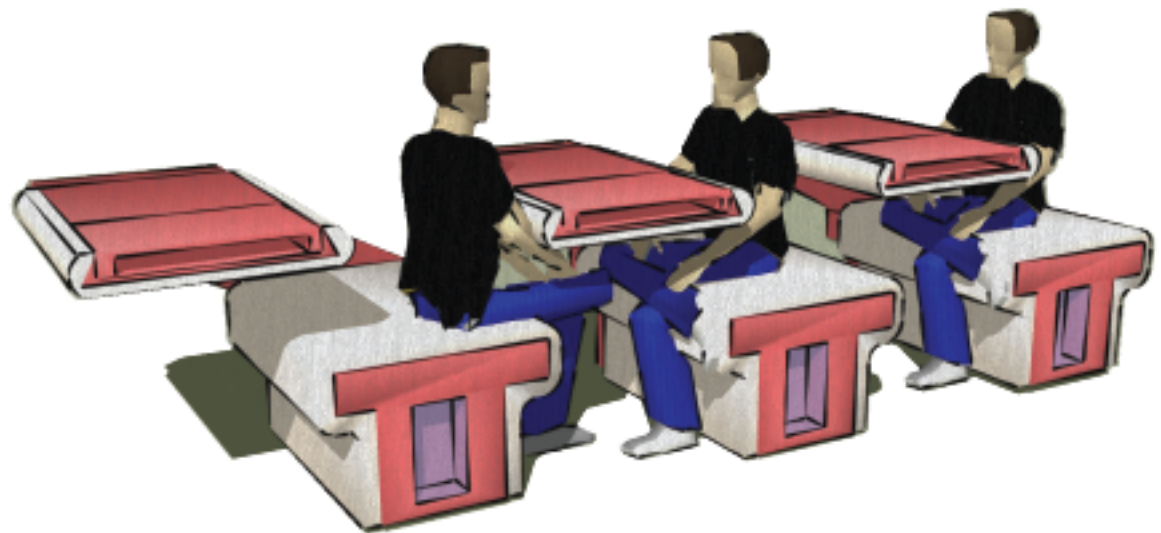
Flexibility offers change in positions for different people



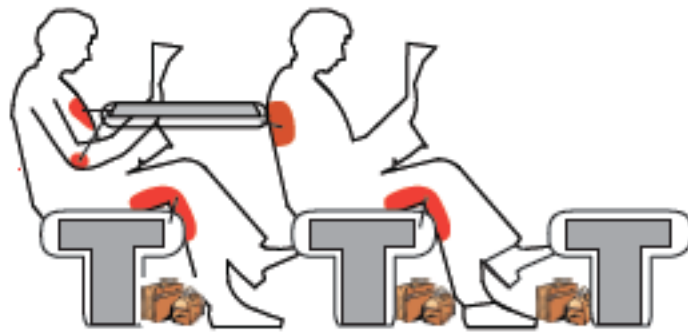
Cushioned areas for comfort



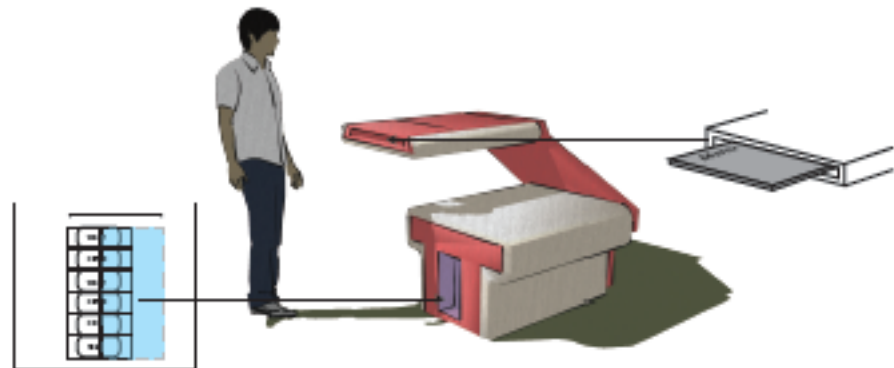
Storage space within seats and tables



Flexibility offers change in positions for different people



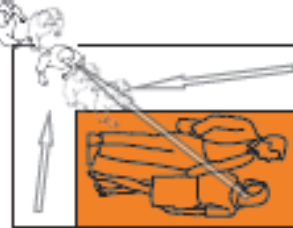
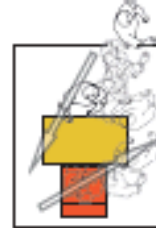
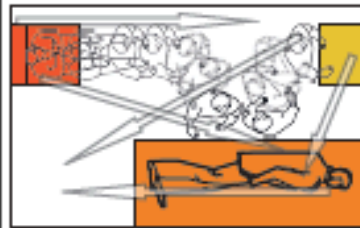
Cushioned areas for comfort



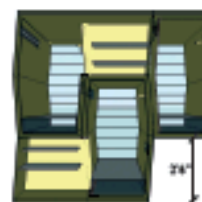
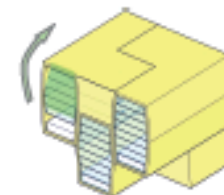
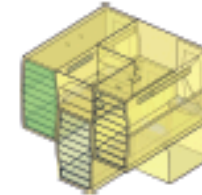
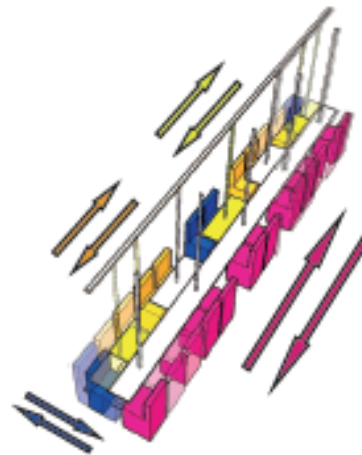
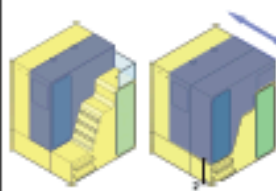
Storage space within seats and tables

AMTRAK - SLEEPING CAR

CONCEPT



PROVIDING TWO SPACES FOR SLEEPING INSTEAD OF ONE SPACE DIVIDED SPACE MAKES PASSANGRS NOT BORING FOR SLEEPING ONE SPACE PEOPLE WOULD SLEEP IN ONE SPACE AND SITTING, GATHERING, AND TALKING IN OTHER SPACE. IT WILL BE MORE ISOLATION AND INTERSTRUCTURE.



SERIES OF SECTION DIAGRAMS (OPEN & CLOSED)

TWO DOUBLE ROOMS - EASILY ACCESSIBLE UPPER ROOM 2' HIGH (ELDERS AND KIDS)

ONE FAMILY ROOM - WALL COMES OUT TO COMBINE TWO ROOMS

BED CAN PROVIDE BOTH SLEEP & SIT



ONLY BACK & FORTH (8 SEATS)



ONLY LEFT & RIGHT (4 SEATS)



ONLY LEFT & RIGHT (10 SEATS)

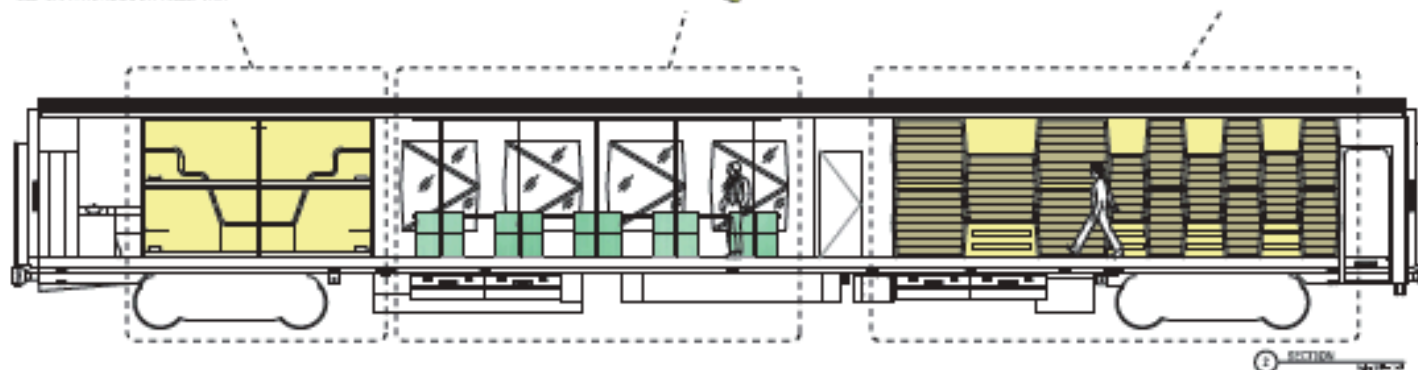


ONLY LEFT & RIGHT (1 TABLE)

SINGLE SLEEPING POD - CONTAINING STORAGE, TWO SHELVES, HANGERS, AND READING LIGHT

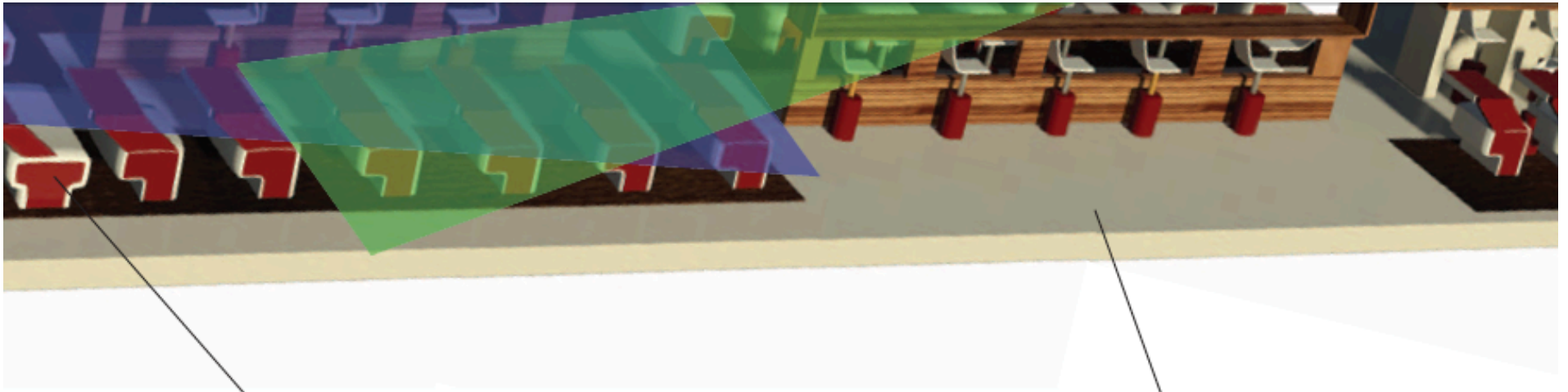
THE GLASS DOOR IS SLIDED INTO THE CEILING LIKE A GARAGE DOOR

DOUBLE SLEEPING POD - SAME AS SINGLE SLEEPING POD, BUT THE SIZE IS TWICE BIGGER THAN SINGLE



2' 0" 10' 0"

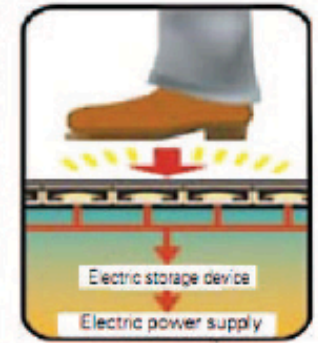
Sustainability Research



Bio plastic



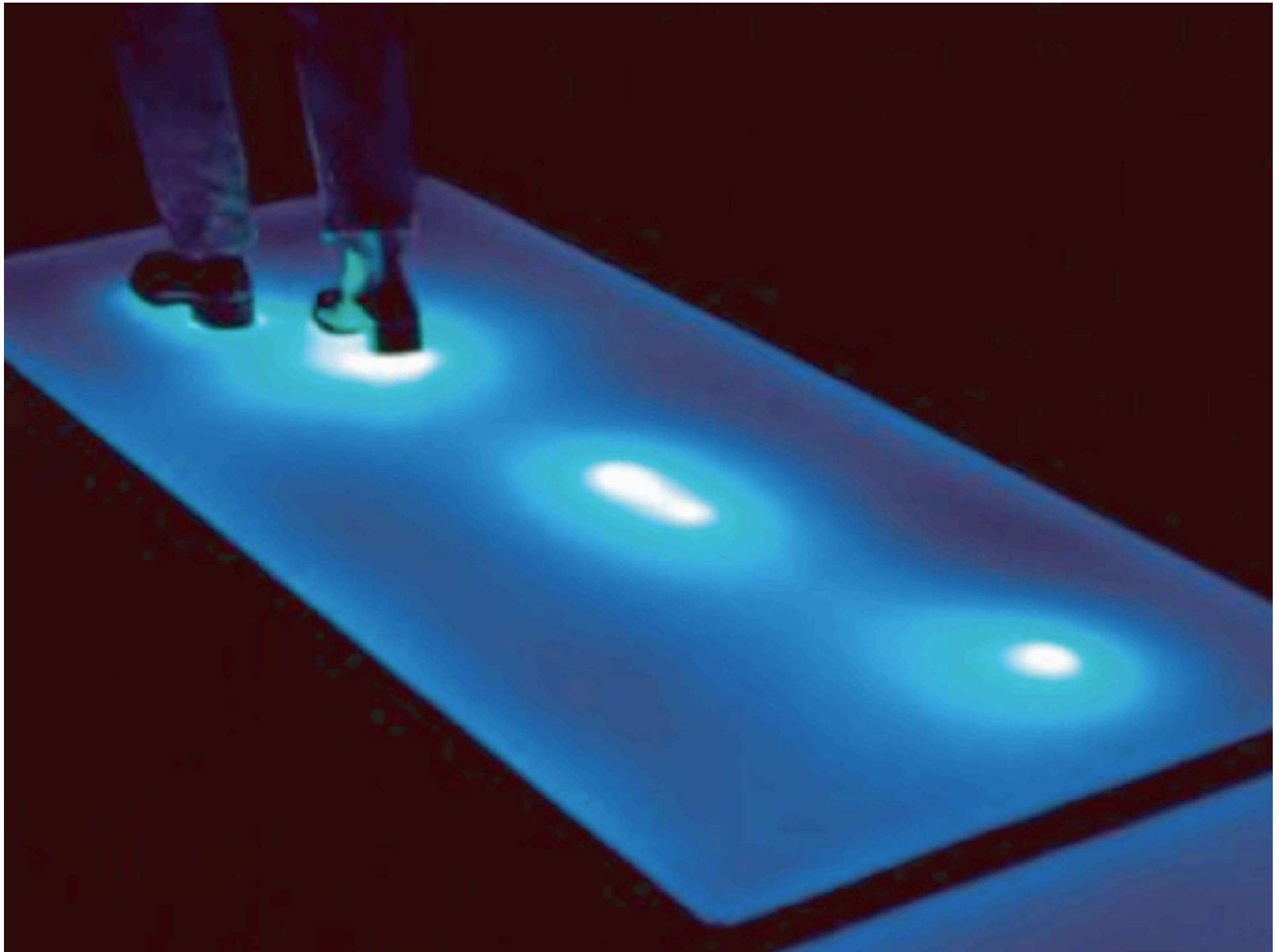
Demonstration experiment at Tokyo Station



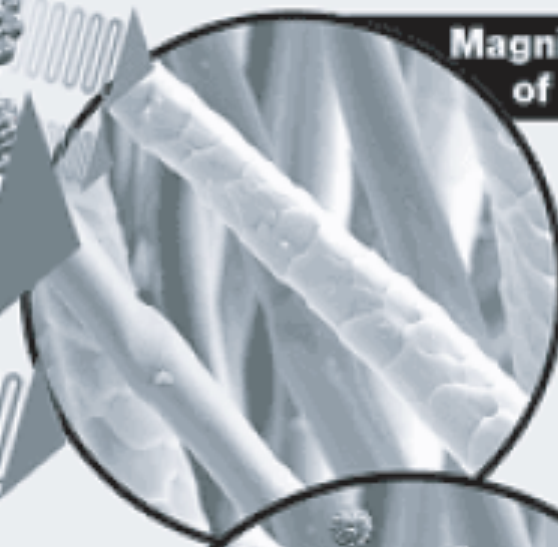
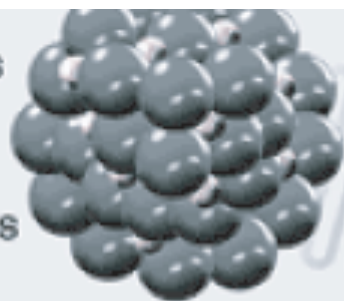
Mechanism of the power-generating floor

Piezoelectric

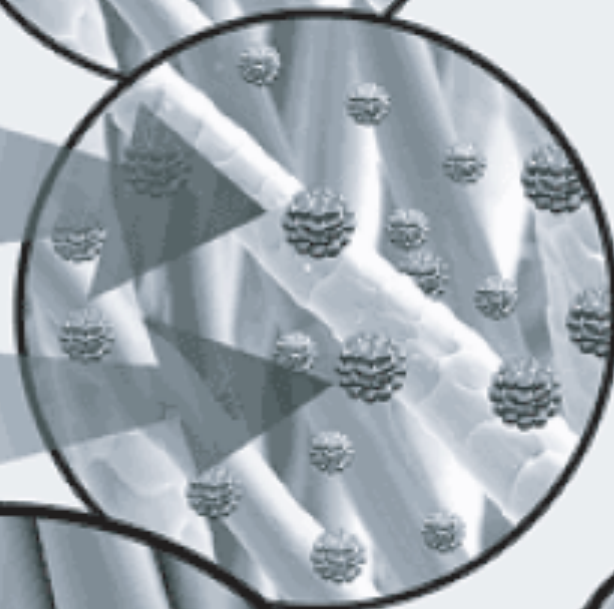
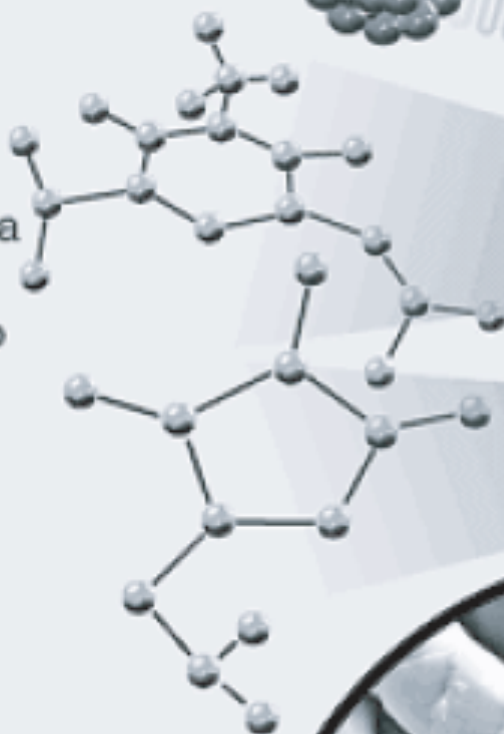




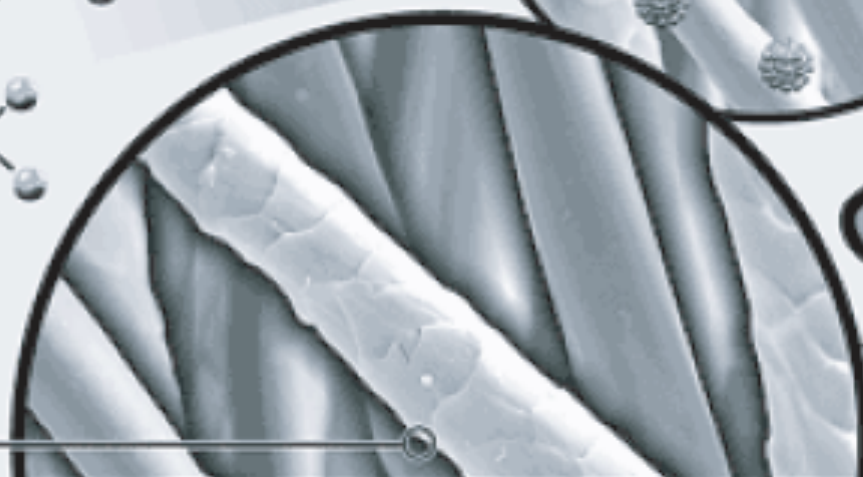
1 Nanoparticles are attached to clothing fibres using microwaves



2 Chemicals that repel water, oil and kill bacteria but cannot be directly applied to fabric are bound to nanoparticles

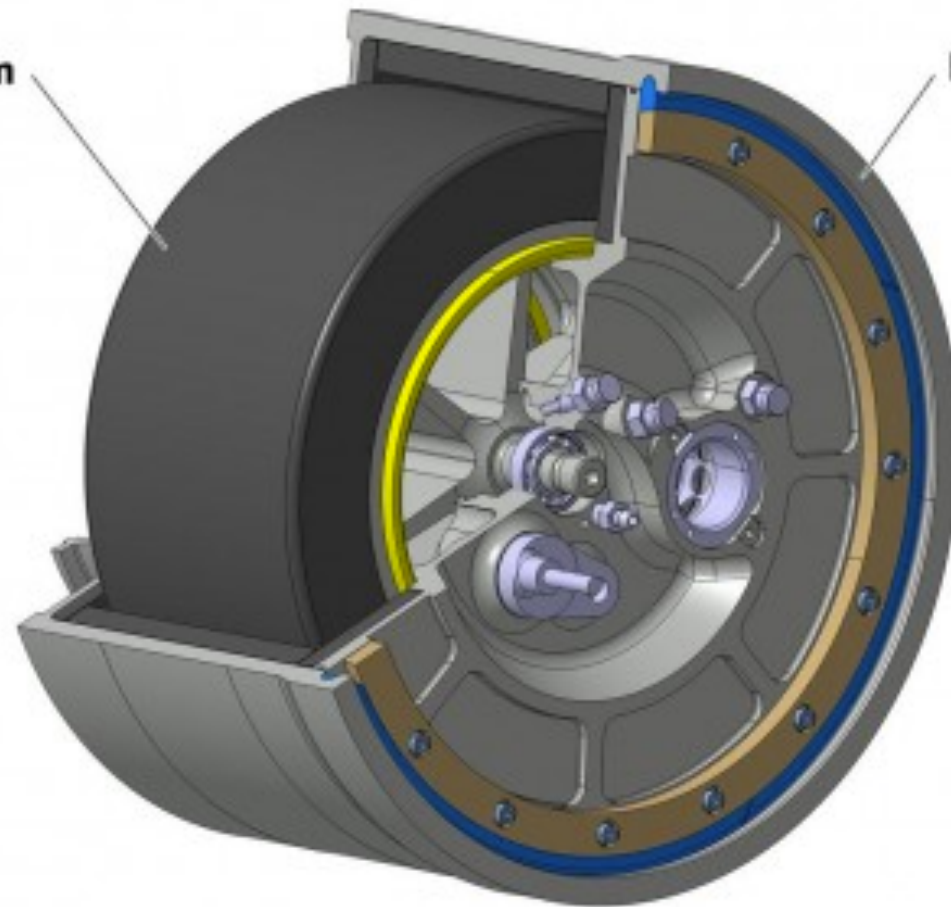


3 Particles form a protective coating on the fibres of the material



4 back for

Flywheel in vaccum
Carbon fibre rim
on a steel hub



Flywheel containment



Pratt



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