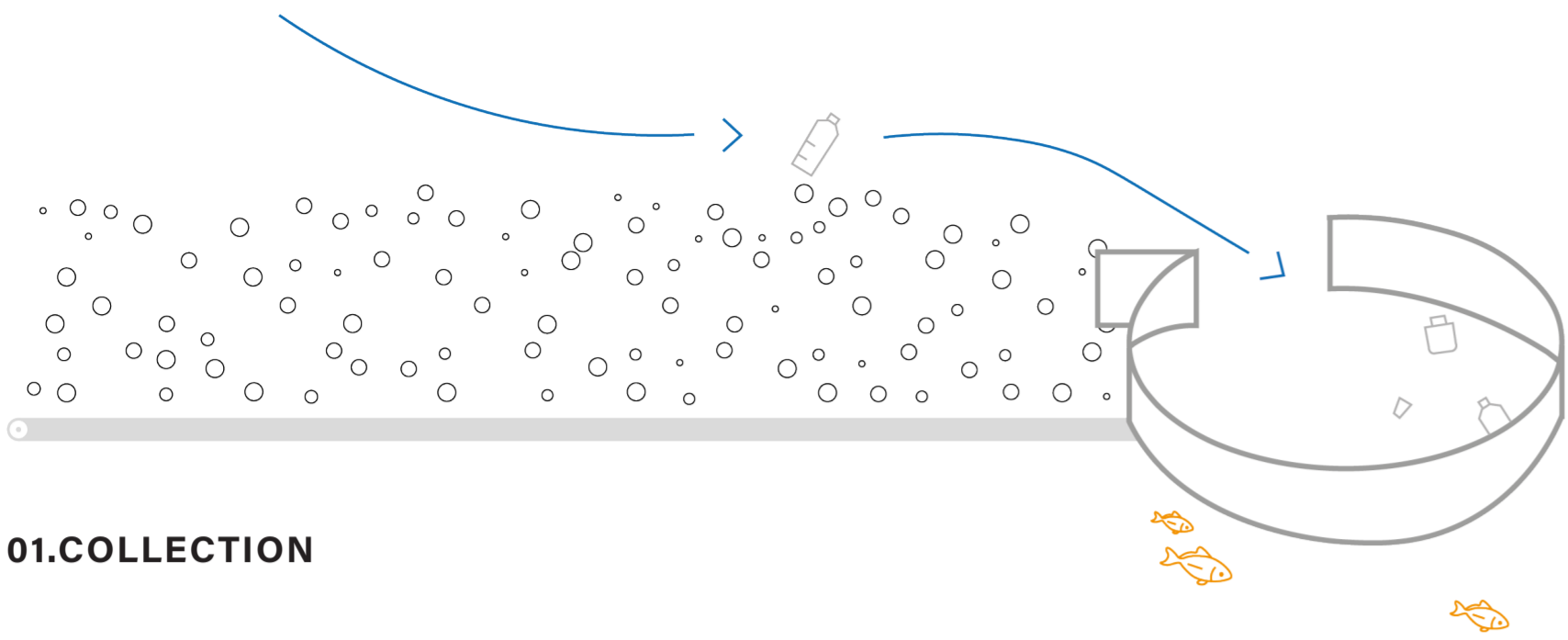


The ambition of the Bishopsgate Goodsyards project is to create a developing community space, reclaiming the area. Using a Pop-Up skate half pipe that floats down The Thames, it collects waste plastic, which is transported to Bishopsgate Goodsyards to be repurposed into plastic building materials. This will provide the local community with the freedom to develop their area, whilst also creating a new source of income.

The design language is fluid, respecting the Grade 2 listed arches that were inspired by river canals. The warped skatable structure is developed from the shape of the Thames. The project was developed with the brand identity of Carhartt, bringing young impressionable people to come and enjoy their space, and teach others of the possibilities of repurposed plastic. The scheme invites all people to come and observe skating as an art form, and to become involved in adapting the community.

The coffee grounds are involved within the loyalty system that rewards returning customers with products made from the waste. Waste coffee grounds also contain nutrients for the soil, helping replenish the green area of Shoreditch.

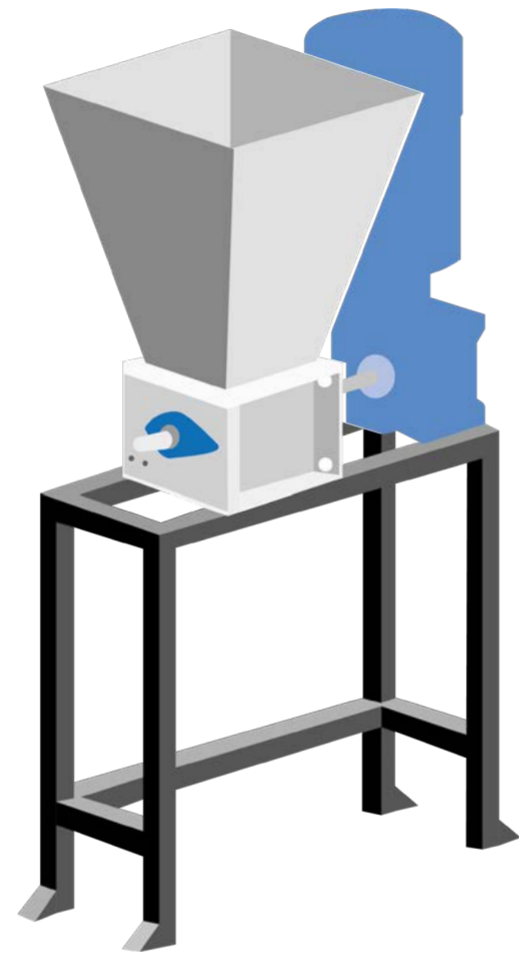


01.COLLECTION

THE GREAT BARRIER BUBBLE



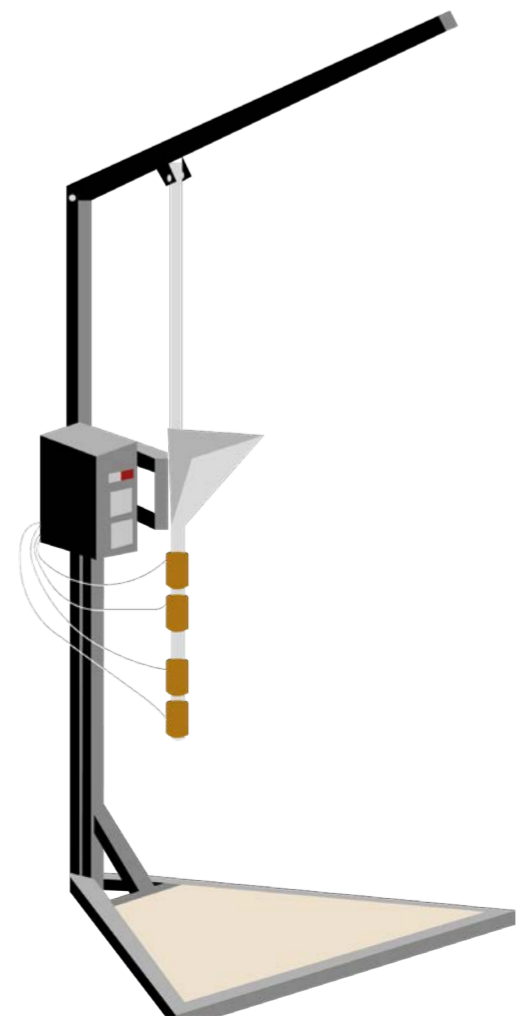
We create a bubble screen by pumping air through a tube with holes in it, which is located on the bottom of the waterway. The Bubble Barrier creates an upwards thrust, which brings waste to the surface of the water. By placing it diagonally in the waterway, the Bubble Barrier uses the natural current to guide the plastic to the catchment system at the riverside. Both ships as fish can pass the Bubble Barrier, but plastic will be stopped.



02.SHREDDER

PRECIOUS PLASTIC

The Shredder cuts plastic items into small flakes ready to be turned into new things by the other machines. The shredded plastic can be of multiple sizes and colours to increase its value.



03.INJECTION

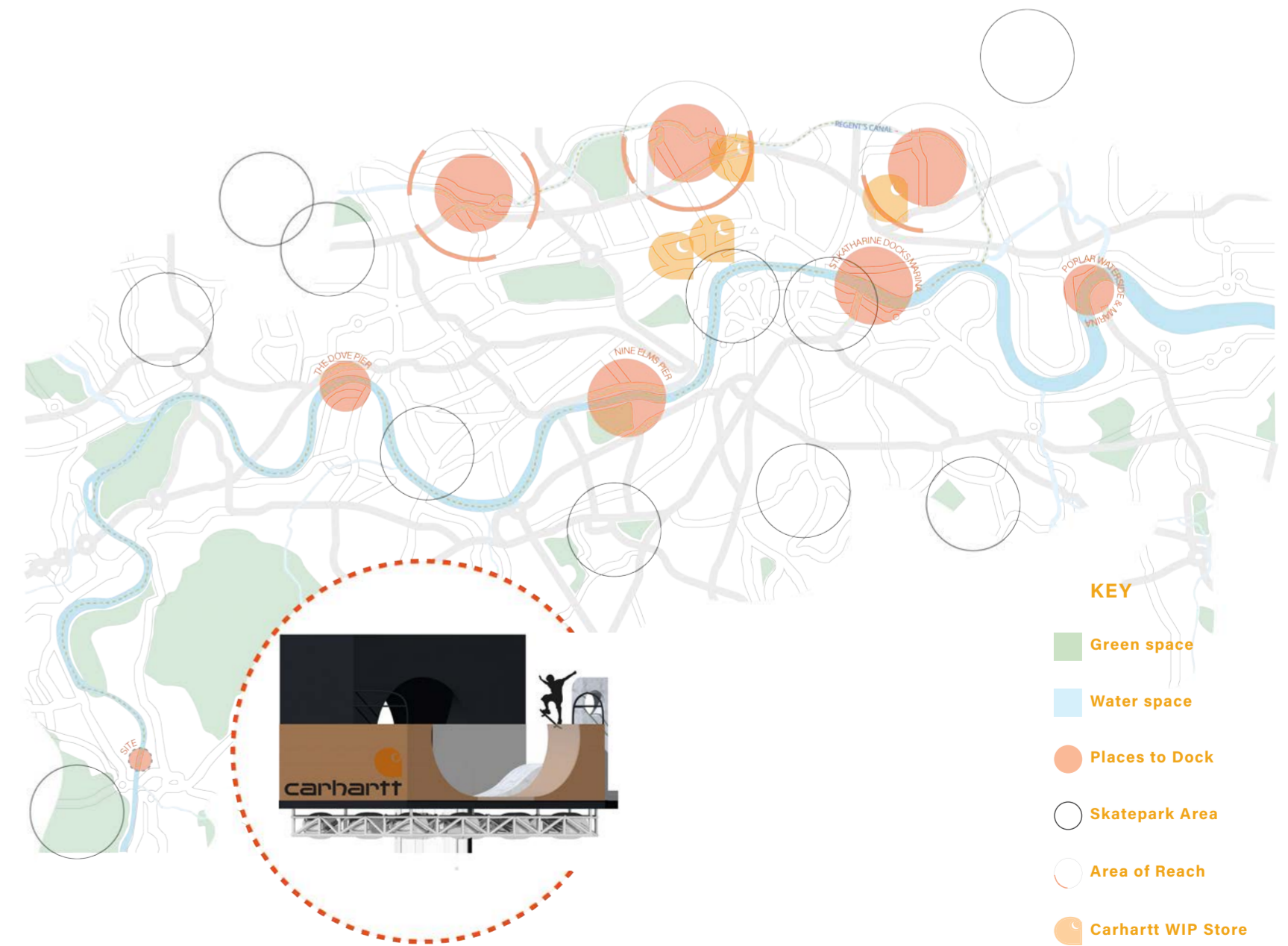
PRECIOUS PLASTIC

Plastic flakes are heated and injected into a mould. It's a relatively quick process well suited for creating productions of small objects. You can make the moulds using CNC mills or lathes, or by simply welding them.

POP UP STORE - THAMES PLASTIC COLLECTION



SCALE 1:50



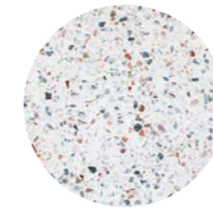
KEY

- Green space
- Water space
- Places to Dock
- Skatepark Area
- Area of Reach
- Carhartt WIP Store



SCALE 1:200

BASE STORE - SHOREDITCH BISHOPGATE GOODSYARD



1

RECYCLED PLASTIC SHEET

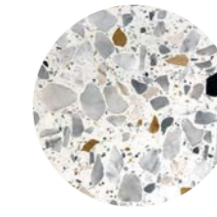
A tightly compressed array of different colour plastics. The majority of discarded plastics are whites or transparent so this is a realistic finish which will be the bottom step that covers the most area.



2

RECYCLED PLASTIC SHEET

A collection of recycled plastic sheets that haven't been shredders down as much to give a more terrazzo look rather than marble. This gives the customers insight into how they might adjust their designs to suit their aesthetic.



3

RECYCLED PLASTIC SHEET

The option to pick and choose coloured plastics is possible, giving a more simple, coherent finish. In this instant, Carhartt chose their branding colours.



4

RECYCLED PLASTIC TILES

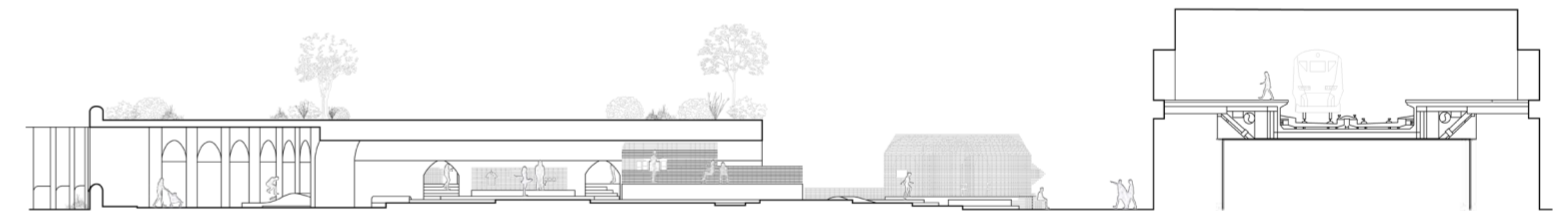
The thicker building blocks allows customers to participate and see all the visual finish possibilities. This addition is obvious and allows to be easily adapted by amateurs.



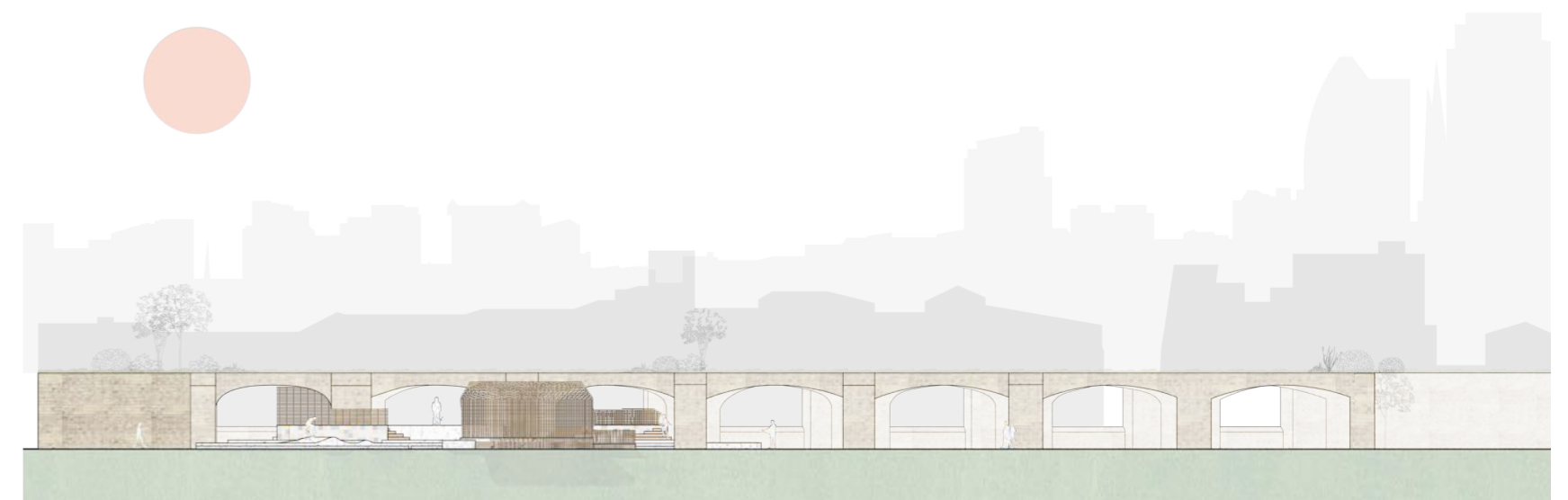
5

REPURPOSED SKATEBOARD

The amount of skateboards manufactured is unknown, however, it is estimated in the millions every year. Most skateboard decks are made from a high grade of maple (Acer spp), veneer plywood and typically last only a few months before they break or deteriorate beyond use. This means millions of boards are disregarded and put into landfill annually. The small percentage that are repurposed is either artistically or aesthetically. The boards can be turned into WOOD-BASED COMPOSITE PANELS. Composite Panels made by cutting skateboard decks into strips and glueing together.



SECTION AA SCALE 1:400



ELEVATION BB SCALE 1:400

BASE STORE - CARHARTT WIP COFFEE



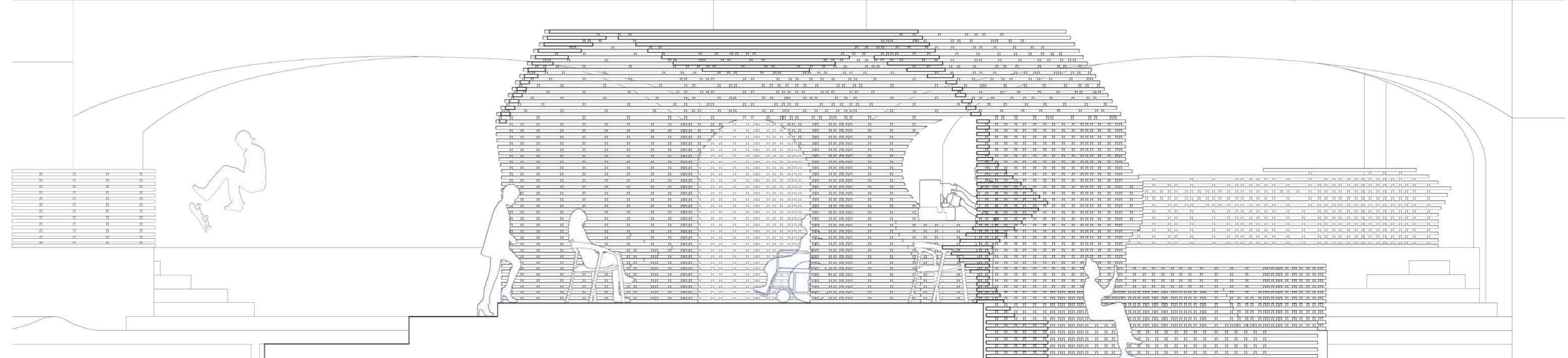
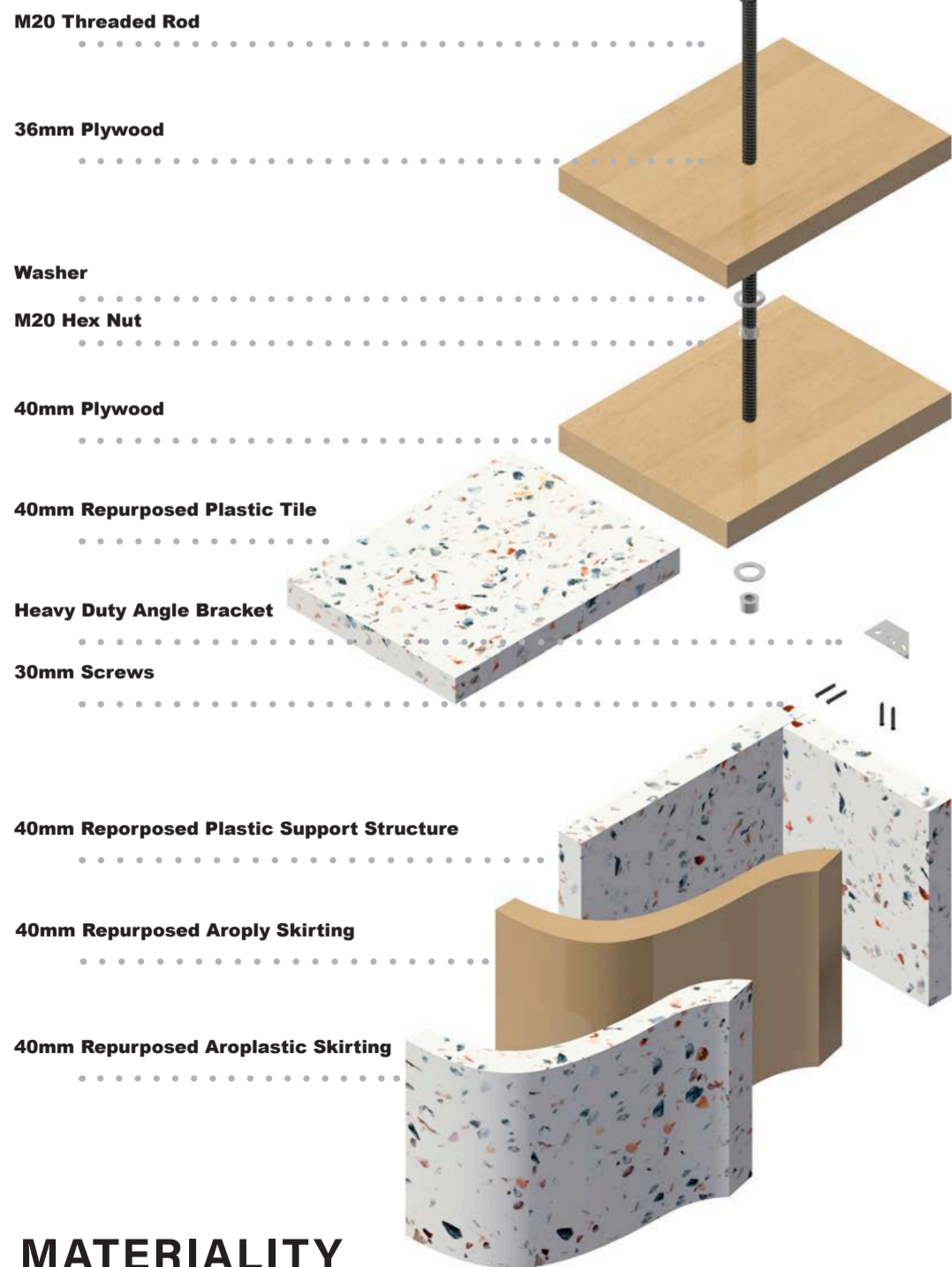
Setting up a loyalty system to Carhartt Coffee Wip invites the consumers to return. Made out of recycled waste paper and coffee grounds to produce a stamp collecting card, allows customers to build up points. Once they reach six coffee cups worth of waste grounds, the take away Kaffeeform cup can be produced and gifted. As time passes it is possible to build a collection of these aesthetic cups and the customer invests emotionally to a sustainable cause.

Tomtex is a flexible bio-material leather alternative, made up from seafood waste and embossed with a variety of patterns to replicate animal skins or other visuals. Every year, up to eight million tonnes of waste seafood shells and 18 million tonnes of waste coffee grounds are generated by the global food and drinks industry.

The material is made with chitsan and coloured with coffee grounds. After the mixture is ready it is poured into moulds and air-dried at room temperature for 2 days. As the process doesn't require heat it reduces the fabrics carbon footprint further.

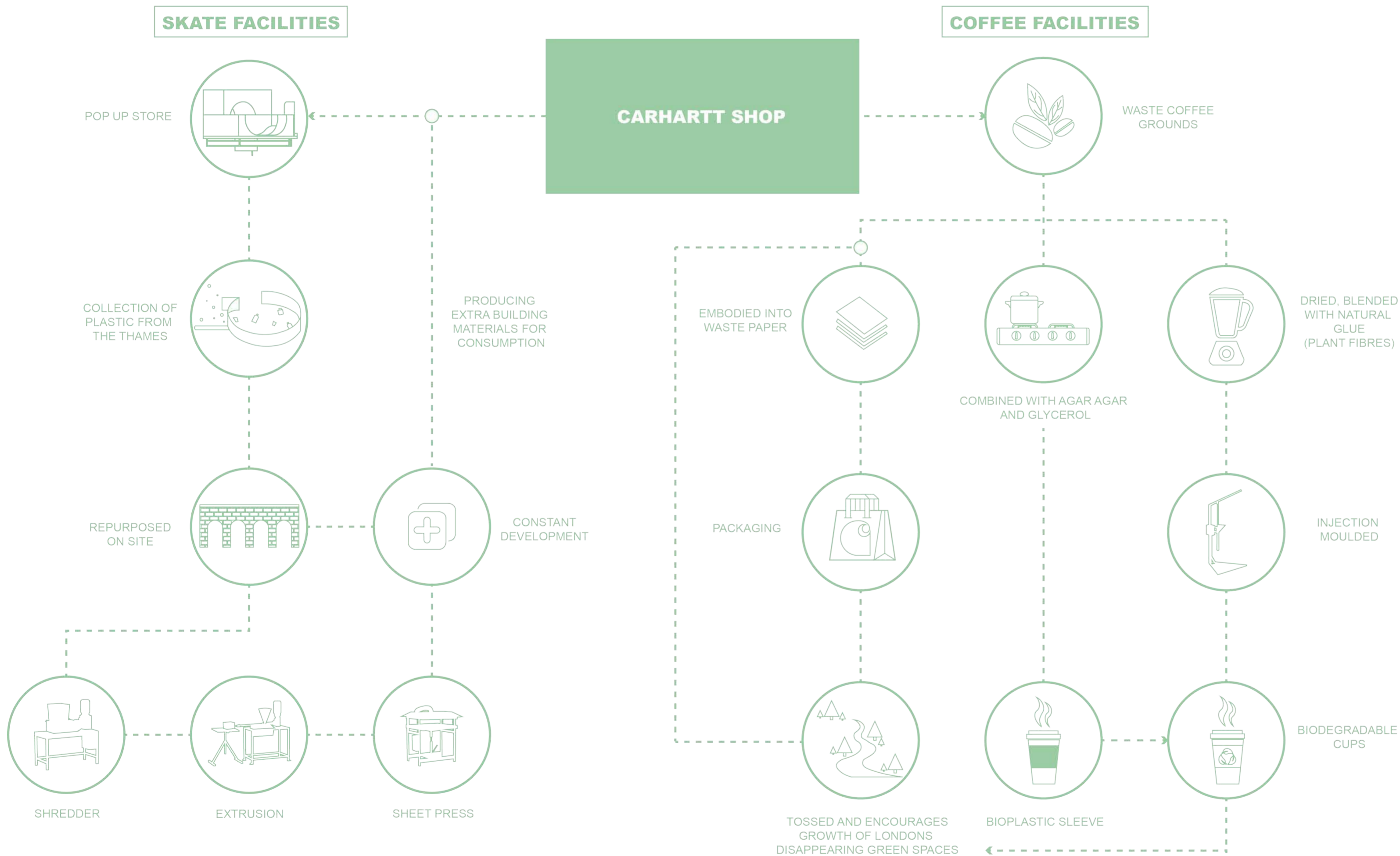
There have been steps taken, with disposable take away cups, but most of these end up in landfill and generate huge waste. Paper cups can take up to 20 years to decompose.

Kaffeeform is a biodegradable sustainable material made from used coffee grounds and other renewable resources. The grounds are sorted, cleaned, dried, blended with natural glues including plant fibres, Beachwood grains and natural resins. The coffee makes up for 40%. The granule is shaped with heat and pressure using a technique called injection moulding. The cups are 100% biodegradable.



MATERIALITY

SECTION CC SCALE 1:50



CURATING CIRCULAR STRATEGIES

The main aim of the proposed environment is to educate and encourage users to think and act in a more economically resourceful way. Including the consideration of the afterlife of 'waste'. The negative connotations of waste can be shown to be both aesthetic in this store, as well as environmentally beautiful. Interaction with multiple circular ideas, it exposes individuals to a variety of thinkings that they can implement in their own day to day living. The repurposed plastic building material can be constantly produced to build the site specific local environment. It can also generate an income as a building material for consumption.

THE SKATE FACILITIES

The skating facilities are created using sheets of repurposed plastic, collected by the pop-up store as it travels down The Thames. The proses are documented in the space to educate and physically demonstrate the possibilities reused plastics have to offer. The constant production of the plastic material offers others to buy into the design, monetarily and conceptually.

THE COFFEE FACILITIES

The waste coffee grounds from Carhartt Coffee Wip are repurposed to create a 100% biodegradable coffee cup and sleeve, which when disposed of also release nutrients into the soil. The waste paper from the store is also combined with waste coffee grounds for packaging. The nutrient properties of coffee help repopularise the ever disappearing green spaces of London.