





THE BRIEF

The unit aimed to introduce the skills and knowledge necessary for the production of a freestanding building and the IMPERATIVES WHICH DRIVE THEIR CREATION and use.

It looks at the RELATIONSHIP BETWEEN INTERIORITY AND ARCHITECTURE (between the qualities of an interior space and the externalised form of the building).

This introduces students to the city (and its scale) as a site for enquiry and allows them to develop an understanding of the interrelationship of buildings, use, users, site, URBAN INFRASTRUCTURE and context.

Consideration is given to factors such as TIME AND CHANGE (e.g. the uses to which buildings may be put in their non opening hours).

RESEARCH STAGE

Firstly, I produced a site analysis of the existing empty green by the ART DECO BUILDING, THE OXO TOWER on the South Bank of the Thames in London. I initiated my analysis of the building and site by considering:

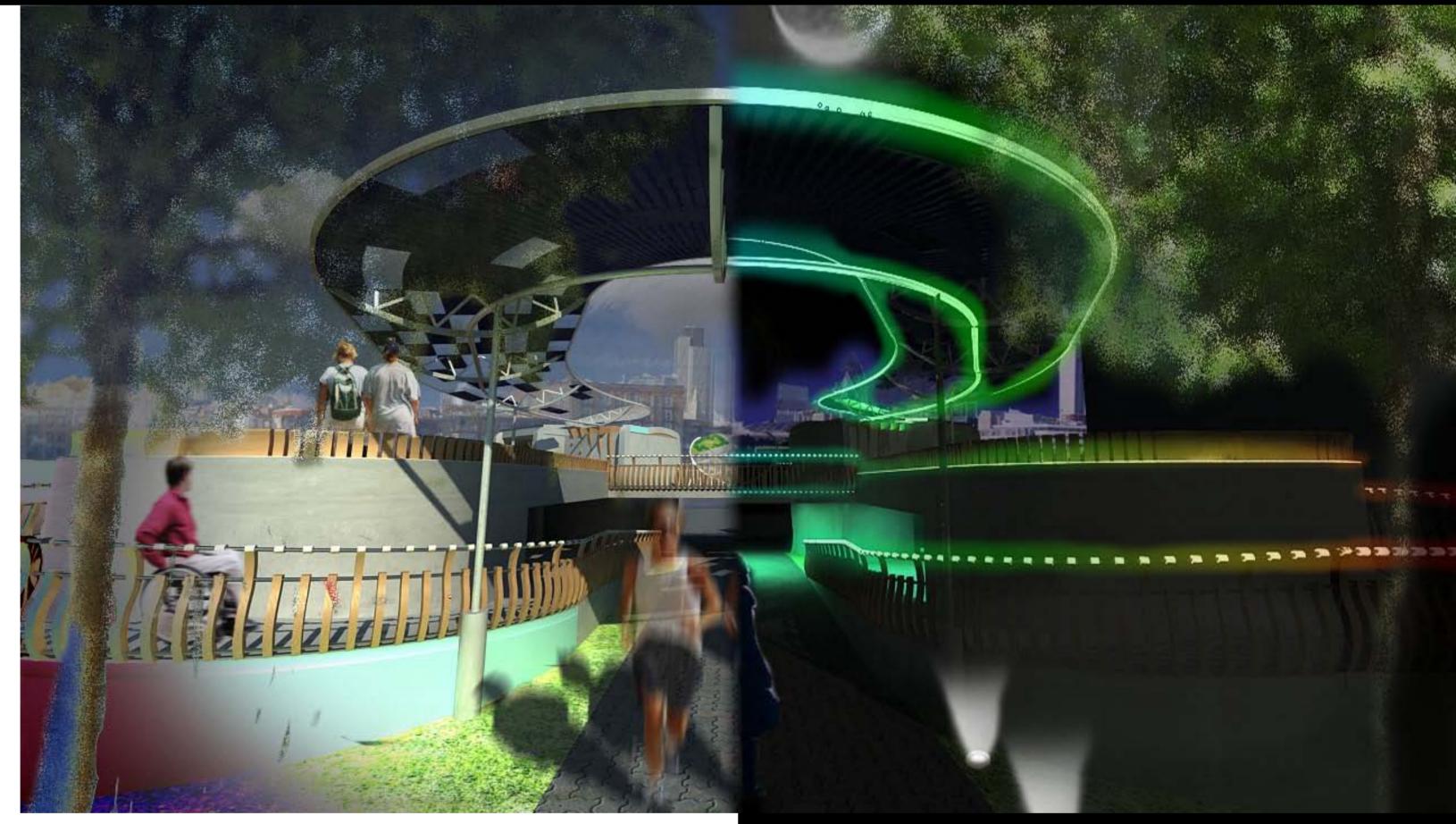
- The geographical, functional and social context of the building.
- The surrounding environment as well as the interior and exterior of the
- The construction of the building and the service provisions around the
- The forms and spaces of the building site.
- The human factors: The needs of the worker, passer-by, tourist, restaurant diner etc.

RATIONALE OVERVIEW

The general intention of this project is as follows;

- To design toilet facilities that caters from MEN, WOMEN AND DISABLED, incorporating new technologies and a unique array of materials to MAXIMISE HYGIENE AND SECURITY.
- To design it to not only fit in with the neighbouring Brutalist buildings present on the South Bank riverside, but also to design it to BLEND IN WITH THE GREEN on the site
- To set out the plan in relation to the style of design precedent Kenzo
- > To NOT DISTURB CURRENT PATHWAYS on the existing site.
- MINIMISE OBSTRUCTION of views of the River Thames whenever possible, whilst MAINTAINING EASY ACCESS to all facilities
- > Allow for A SENSE OF EXPLORATION and jogging/walking route for passers by
- Consider OTHER POSSIBLE USES TO COMPLEMENT the users of neighbouring buildings i.e. users who attend performances at the Royal Festival Hall
- Create JOB OPPORTUNITIES whenever possible
- Due to the erection of the new facility, green space is being eliminated,

so therefore the design should COMPENSATE FOR THE LOSS of



BY DAY

By NOT UNNECESSARILY HEWING TREES on the site (which do not have TPO's on them) it means that the facility can be situated within them and gives it A SENSE OF BELONGING on site. The materiality REFLECTS THE

SURROUNDINGS and also creates references to the design inspirations of Japanese Buddhist architectural designer, Kenzo Tange. Furthermore,

the MATERIALITY IS ENVIRONMENTALLY **SOUND**. With the trees and the positioning of the photovoltaic cells on the glass roof above,

these allow the creations of **VARIOUS ABSTRACT** SHAPED LIGHTS THAT CREATES AN ARTISTIC MOOD to this place, whch allows those that use this facility to feel calmer and less intimidated by the dominant presence of the

A) Recycled Shotcrete

B) Steam Bent Timber

C) Recycled Corian

D) Photovoltaic Glass

The trees currently surrounding the site do a reasonable job

of illuminating the empty park area, but with this new facility in place, it FILLS THE DARK

BY NIGHT

VOID between the OXO Tower The light intensity created and the riverside amenities.

When night falls, to REFLECT THE VIVID COLOURS that are on show along the entire riverside Brutalist buildings, the CORIAN ELEMENTS of

but most importantly, light. As explained, this site is known for antisocial activities such the design light up in a rainbow of as violence and rape, which primarily take place in dark areas owing to being invisible to suspecting public. These lights also allow those in the dark to find their way around the site, particularly the disabled users.

centrally TRANSFORMS THE DYNAMIC OF THE FACILITY TO REFLECT THE MORE MAJESTIC

TRADITIONS by creating a sense of sanctuary. The illuminated ramps create aisles to strengthen this relationship to those traditions.







KENZO TANGE







Tange (1913 - 2005) was a Japanese architect who was the winner of the 1987 Pritzker Prize for architecture. His work

COMBINED THE TRADITIONAL Buddhist temple style with the Brutalist and Structural styles, which allowed his designs to be MODERN, TECHNOLOGICAL as well as invoke his BUDDHIST DRIVE and passion to add A SENSE OF SPIRITUAL BELONGING within the buildings and settings he designed.

His work mainly comprised of URBAN MASTERPLANNING as well as

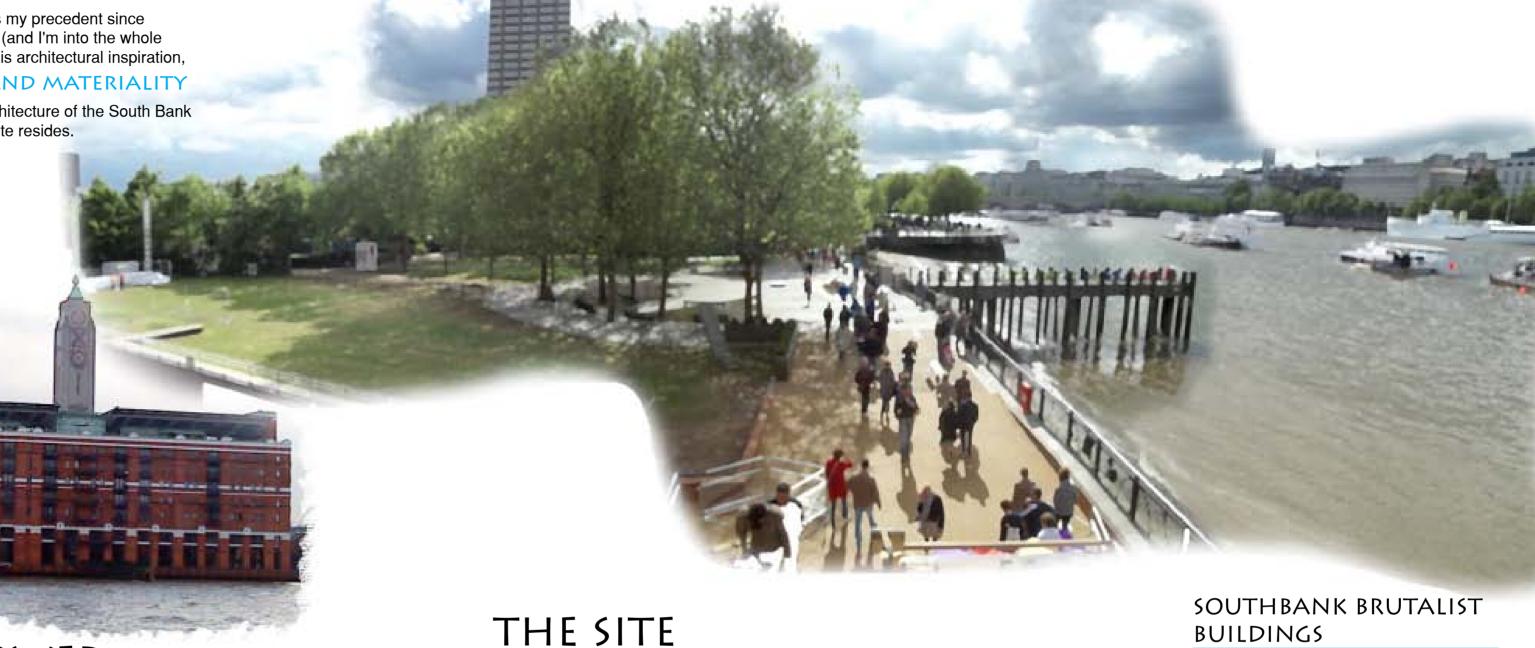
LANDSCAPING projects. Whenever he could, he would try to combine them together. It was this unique design philosophy that got him known in Japan as a KEY ARCHITECT OF THOSE TIMES.

WHY KENZO?

I chose Kenzo Tange as my precedent since not only is he Japanese (and I'm into the whole Japanese culture), but his architectural inspiration,

in terms of SHAPE AND MATERIALITY

FIT in well with the architecture of the South Bank in which the proposed site resides.



OXO TOWER

TO INCLUDE A

TOWER FEATURING

advertising the name of their

product. When permission for

the tower was built with four

ILLUMINATED SIGNS

the advertisements was refused.

The Oxo Tower, rebuilt in the 1930s to an ART DECO

DESIGN with mixed amenities such as a restaurant, an exhibition space as well as residential apartments and shops. The design

Address: OXO TOWER WHARF

Barge House St, South Bank, London, SE1 9PH

The site itself is a green that nestles in between the renown Oxo Tower and the brutalist buildings on the Entertainment District of South Bank. The green also has a jetty on the Thames as well as a circular pathed area, surrounded with TREES UNPROTECTED FROM TPOS.













OXO TOWER



The Thames Riverside attracts a lot of tourism, but as well as them, the other user groups are specified as below, which represent the kinds of people that come by this site on a regular daily basis.





London is known for having SEVERAL WORLDWIDE CULTURES RESIDING IN THE CITY.

In relation to the demographics that are nearest to the site in question, the 5 diagrams to the right indicate the presence of the Top 5 cultures residing in the area...

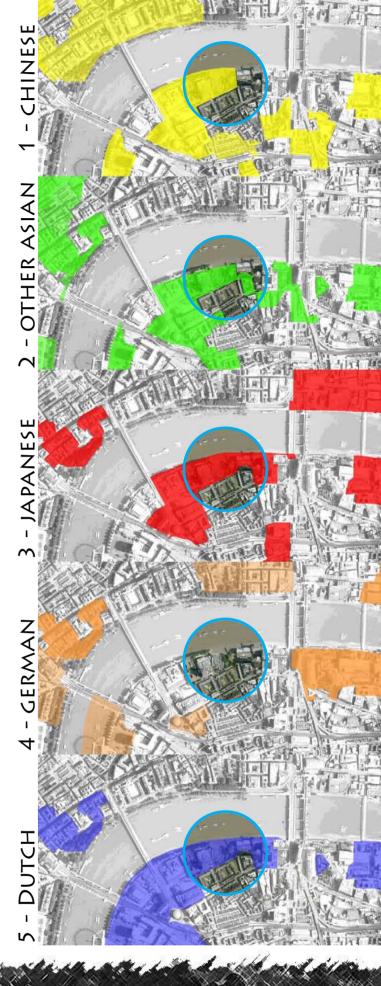


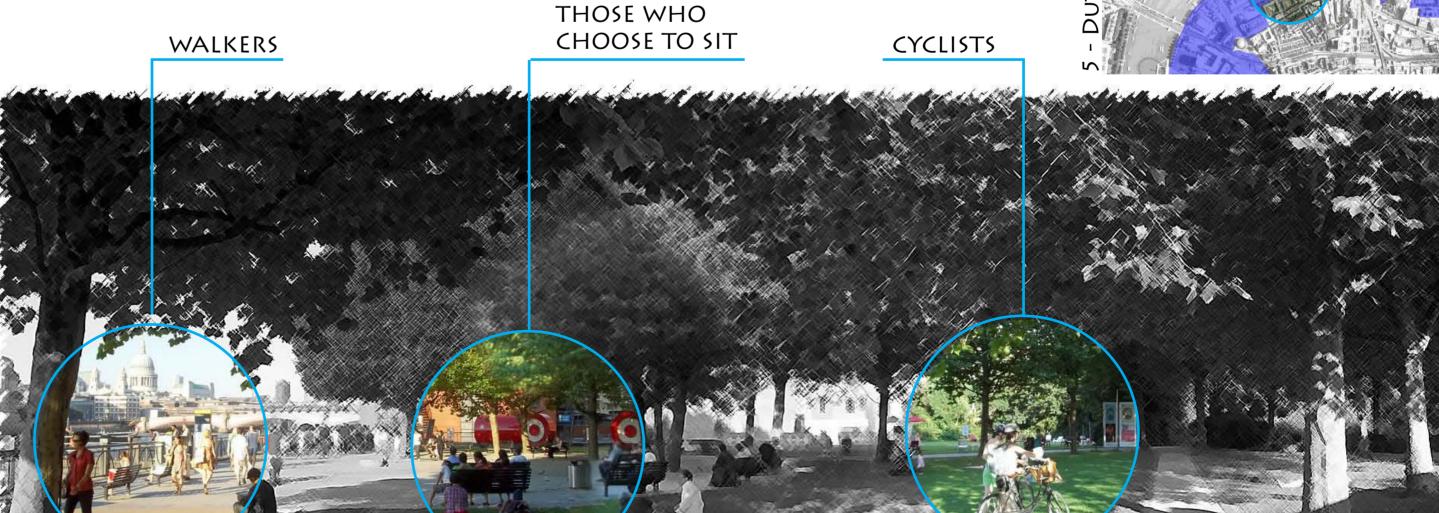
The blue ring represents the 200M RADIUS that surrounds the site. Denser colours on each diagram represents a greater density of population of that ethnicity in that block.

Analysis of the study has indicated that there is

A STRONG EAST ASIAN PRESENCE in this part of the borough of Lambeth. This supports the reason for an Asian style design proposal...

(Information obtained from London Profiler)

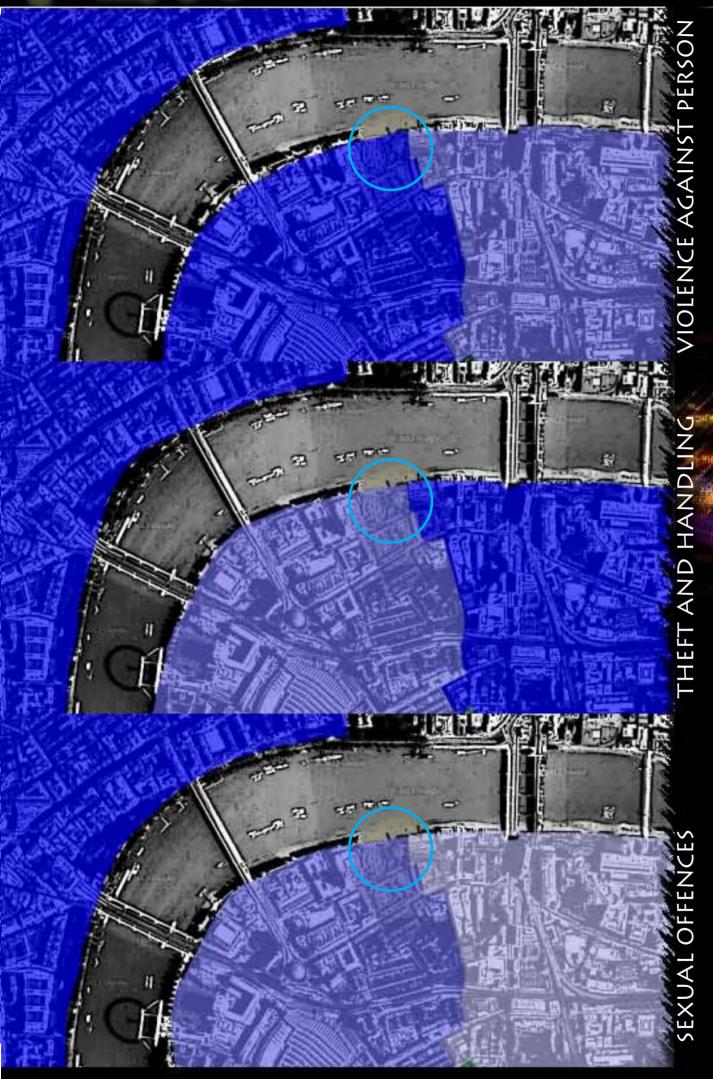












CRIME PRESENCE AROUND SITE

Crime in London is notorious, but a study of the types of crimes specifically in the South Bank is as seen above. These are the key three that are most occurrent in this area.

The blue ring represents the 100M RADIUS that surrounds the site. Denser colours on each diagram represents a greater density of that particular crime in that block.

Analysis of the study has indicated that VIOLENCE AGAINST OTHERS is the key crime in this area, but there is a danger of theft too close by. (Information obtained from London Profiler)

LET THERE BE LIGHT,

GREY BRUTALIST BUILDINGS, the intensity of the light is STILL INSUFFICIENT ENOUGH TO PREVENT CRIME. In other words, there is enough dark spaces for crimes to be committed such as those detailed to the left.

COMPONENTS OF DESIGN, Allow for a continual uninterrupted level including interiors, should be resistant to vandalism and easily replaced, or cleaned.

- of surveillance i.e. windows overlooking public
- Consider ACCESS to proposal
- Good surveillance
- No dead ends









THE GROUND FLOOR

1 - DISABLED WC

Whilst it is already LARGER THAN THE STANDARDS as set in Building Regulations Part M - Access to and use of buildings, it allows

for that EXTRA MANOUVREABILITY and also more sense of security and safety. Psychologically, larger rooms allow the users of the room to feel more at ease. People who use public facilities already have that sense of uncertainty.

This is more true for those who are disabled hence the need for CREATING A PSYCHOLOGICALLY LARGER SPACE.

Adding to the effect is applying a GLOSS TO THE WALLS.

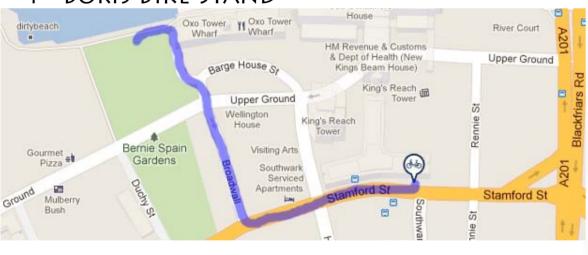
2 - LOCKERS AND SHOWERS

These are being implemented to allow users that are attending a prestigious event that takes place along the riverside, such as a musical performance inside the Royal Festival Hall. The showers may also be used by those who cycle or jog and just need to cool down their bodies in preparation for the journey ahead.

3 - PLANTING BEDS

Flower bed decorating creates A SENSE OF BEAUTY to a scene. Because this part of London has several Brutalist Buildings, and this facility is potentially taking away a fairly significant amount of green area, the flower beds that border the facility create a BEAUTIFUL VEIL for those entering the park. They would see colour instead of the depressing grey. These also create jobs for the unemployed. The upkeeping of gardens does require commitment and several days a week upkeep. It is also a NEW SKILL that is learnt.

4 - BORIS BIKE STAND



The nearest stand to the site is a 6 minute walk away, whereas in most places in London, each stand is traditionally a couple of minutes apart.

Having one on site allows for MORE CONVENIENCE FOR THE USERS of the site.

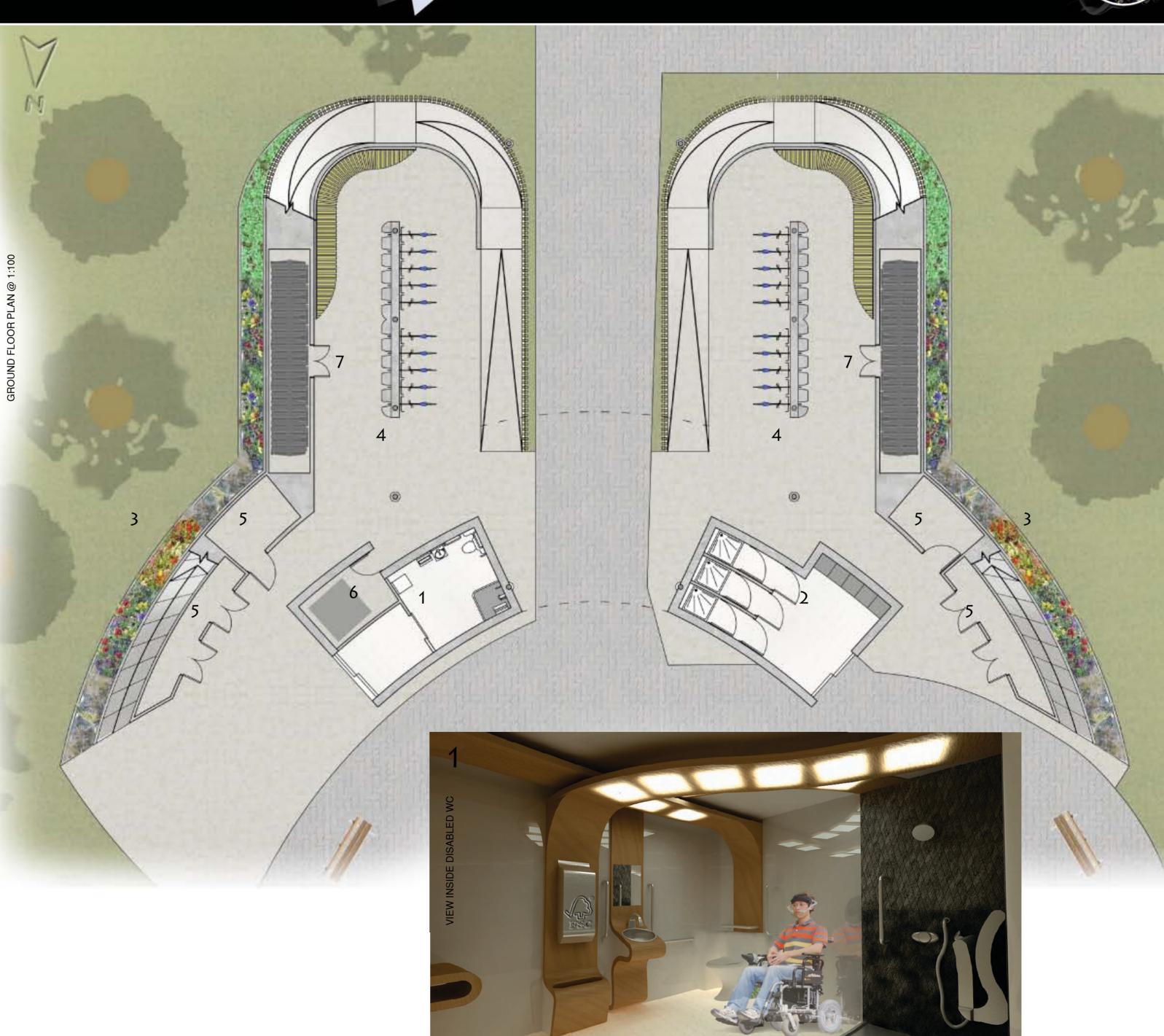
5 - EQUIPMENT STORAGE

The equipment for the plant bed upkeep as well as other necessary equiment used to maintain the facility would be stored here.

6 - ENGINE ROOM

7 - RAINWATER COLLECTING TANKS

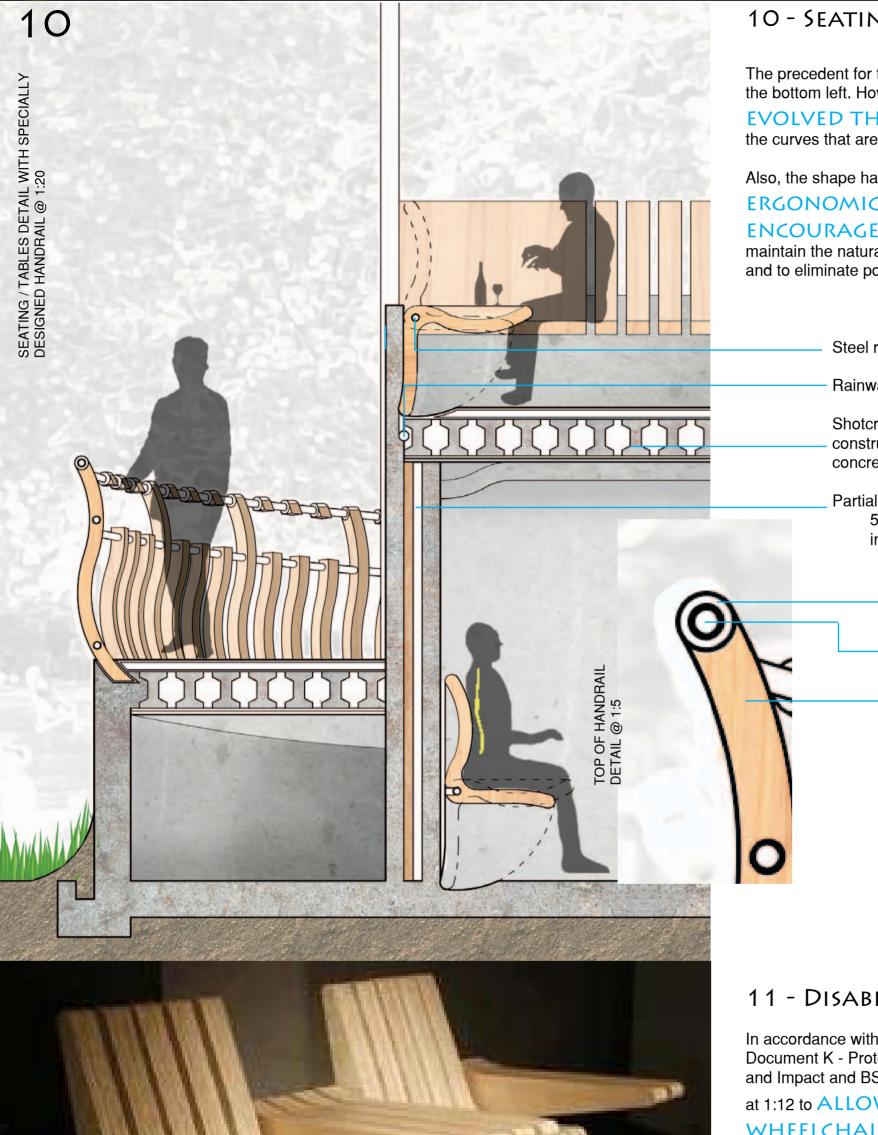
Rainwater that is collected by the roof's gutters would be brought to these tanks to be used by the water dispensers for the beds and for flushing the toilets as part of being an environmentally friendly scheme design.











10 - SEATING / TABLES

The precedent for this design is as shown to the bottom left. However, for my scheme, I have **EVOLVED THE DESIGN** further to incorporate the curves that are seen around the rest of the site.

Also, the shape has also been

ERGONOMICALLY ADAPTED TO ENCOURAGE GOOD POSTURE, to

maintain the natural S-shape curvature of the spine and to eliminate potential back pain and fatigue.

Steel rod axle

Rainwater drainage

Shotcrete floor construction with precast concrete beams

Partial fill wall construction; 50mm cavity / 50mm insulation

15mm Corian layer

20mm radius steel connecting bar

Steam bent recycled timber post

11 - DISABLED RAMP

In accordance with Building Regulations Approved Document K - Protection from Falling, Collision and Impact and BS 8300:2001, the slope runs

at 1:12 to ALLOW FOR ACCESS BY WHEELCHAIR USERS with landings at appropriate intervals. What this also means that it CAN BE USED BY JOGGERS AND WALKERS to add a little more length to the journey.

12 - DIGITAL NOTICE BOARD

This is a digital screen that can display all sorts of information on it, such as a map, advertisements for nearby events. This is also illuminated at night to add to the colourful scenery.

FURTHER VISUALS

The terraces outside of the WCs allow for PRIMARILY

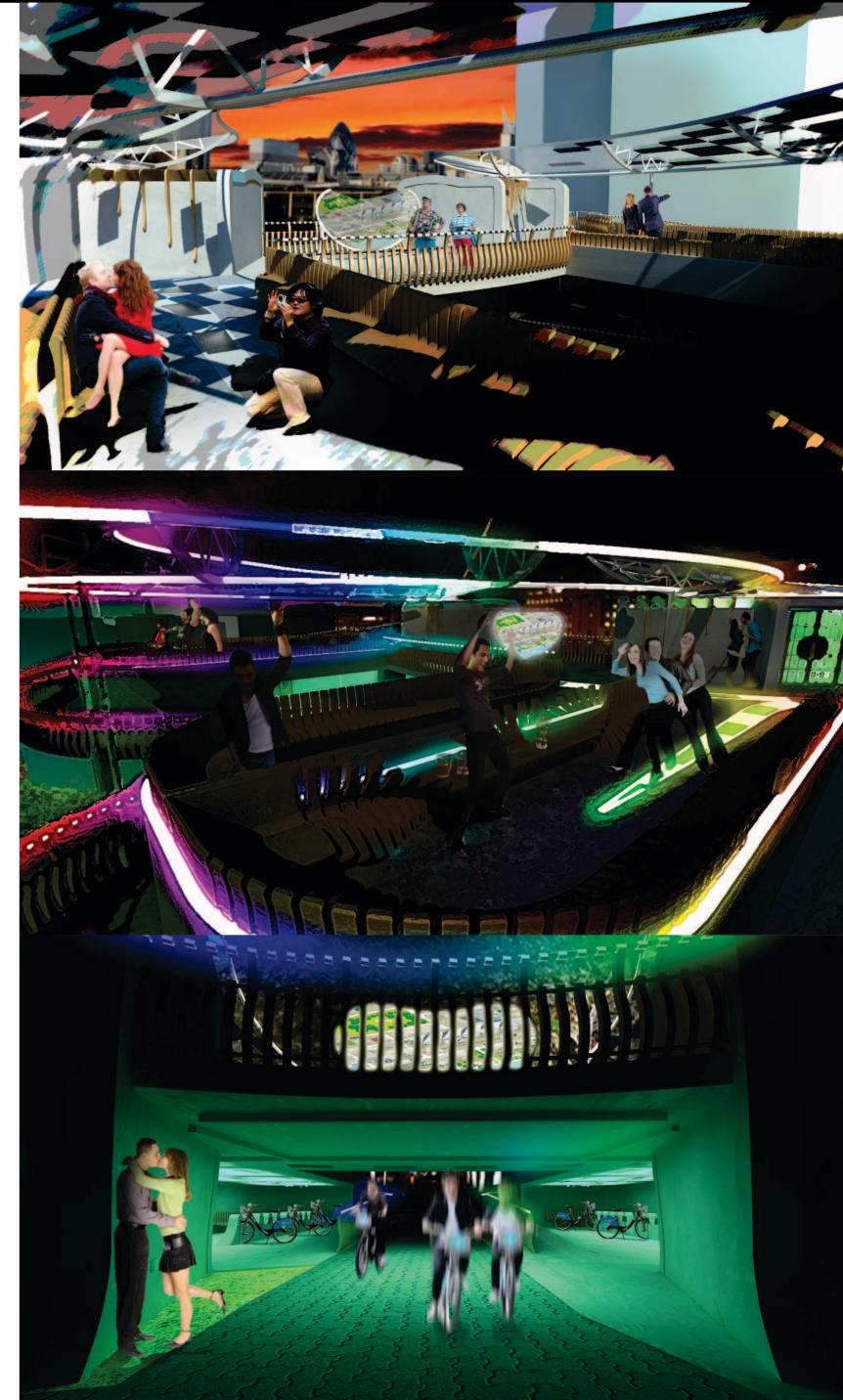
A SENSE OF RELAXATION, but they can be used for other purposes, such as for A FORMAL RENDEZ-VOUS, OR

PERHAPS NOT SO FORMAL.

Whatever time of day, the visitors and dwellers will be treated

to SHAPES OF CONSTRASTING LIGHT AND

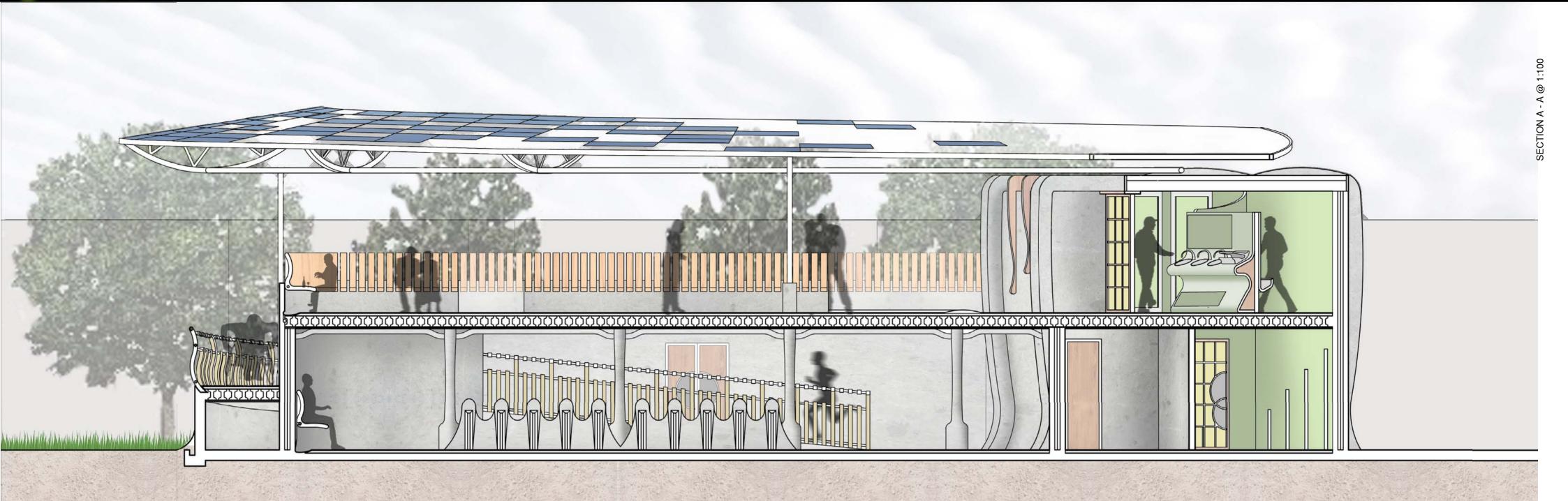
SHADOW during the day, and by night, it will be lit up like a discoteque to create a happy, vibrant and more importantly **SOCIAL** ATMOSPHERE, whilst at the same time, maintaining a SENSE OF SAFETY AND **SECURITY** within this sanctuary.

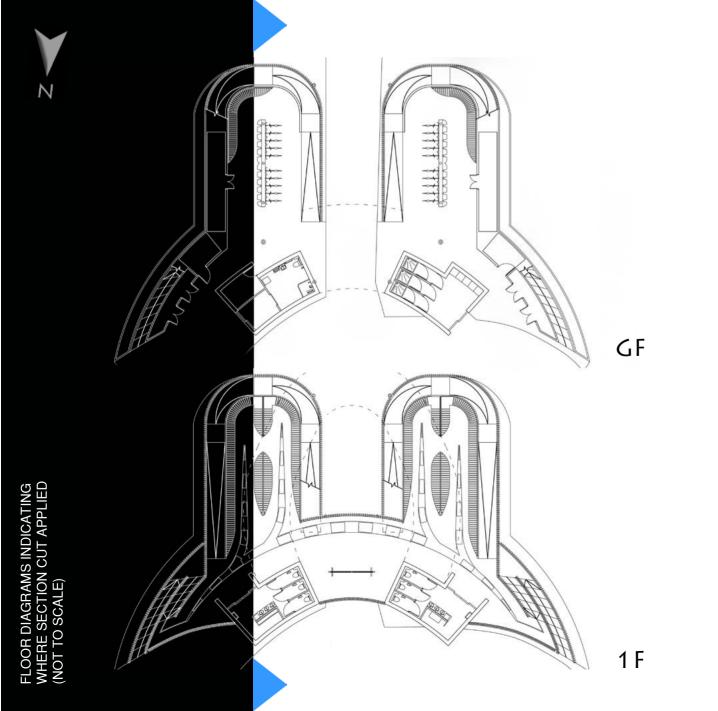
























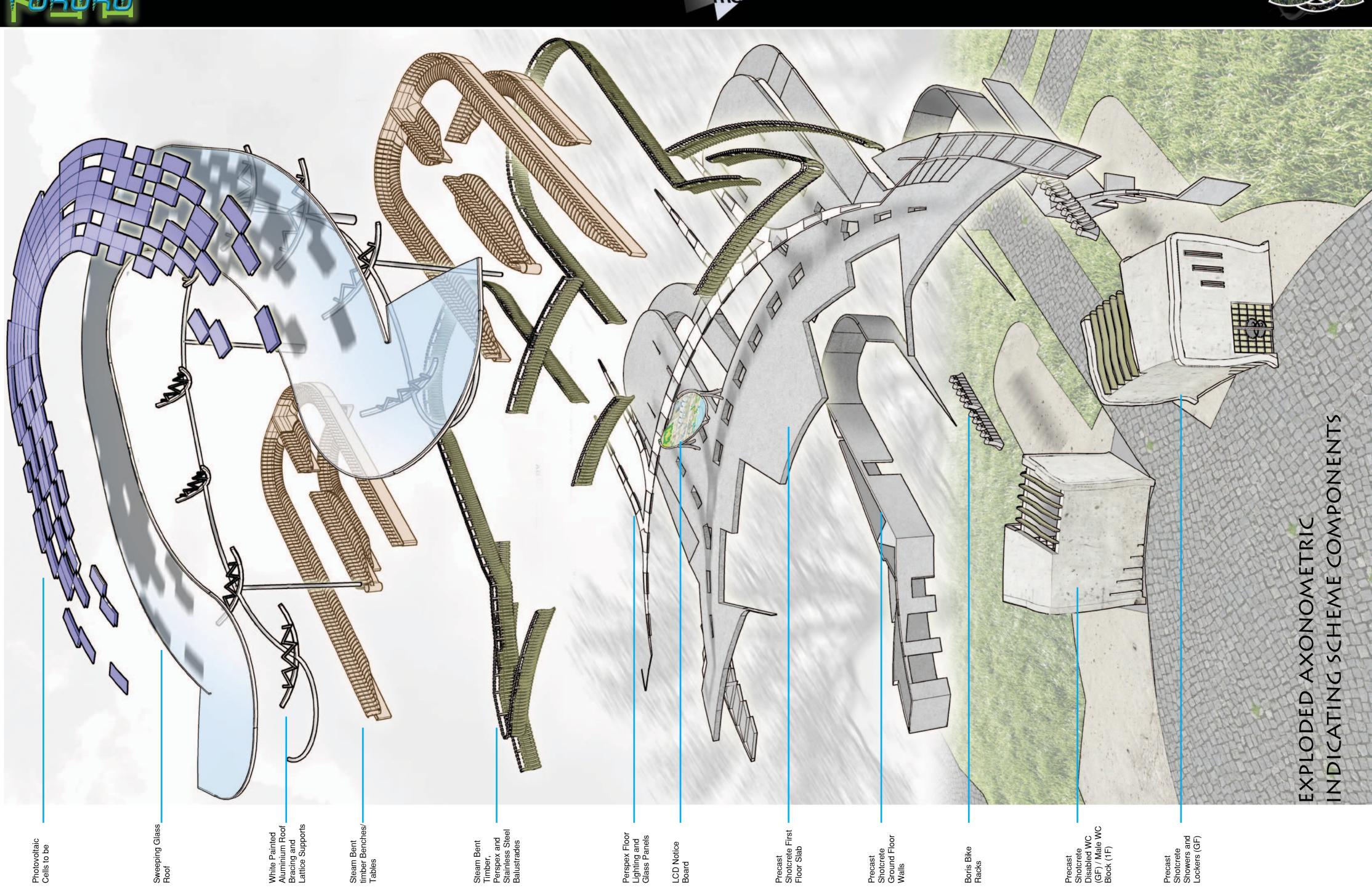


EAST ELEVATION @ 1:100









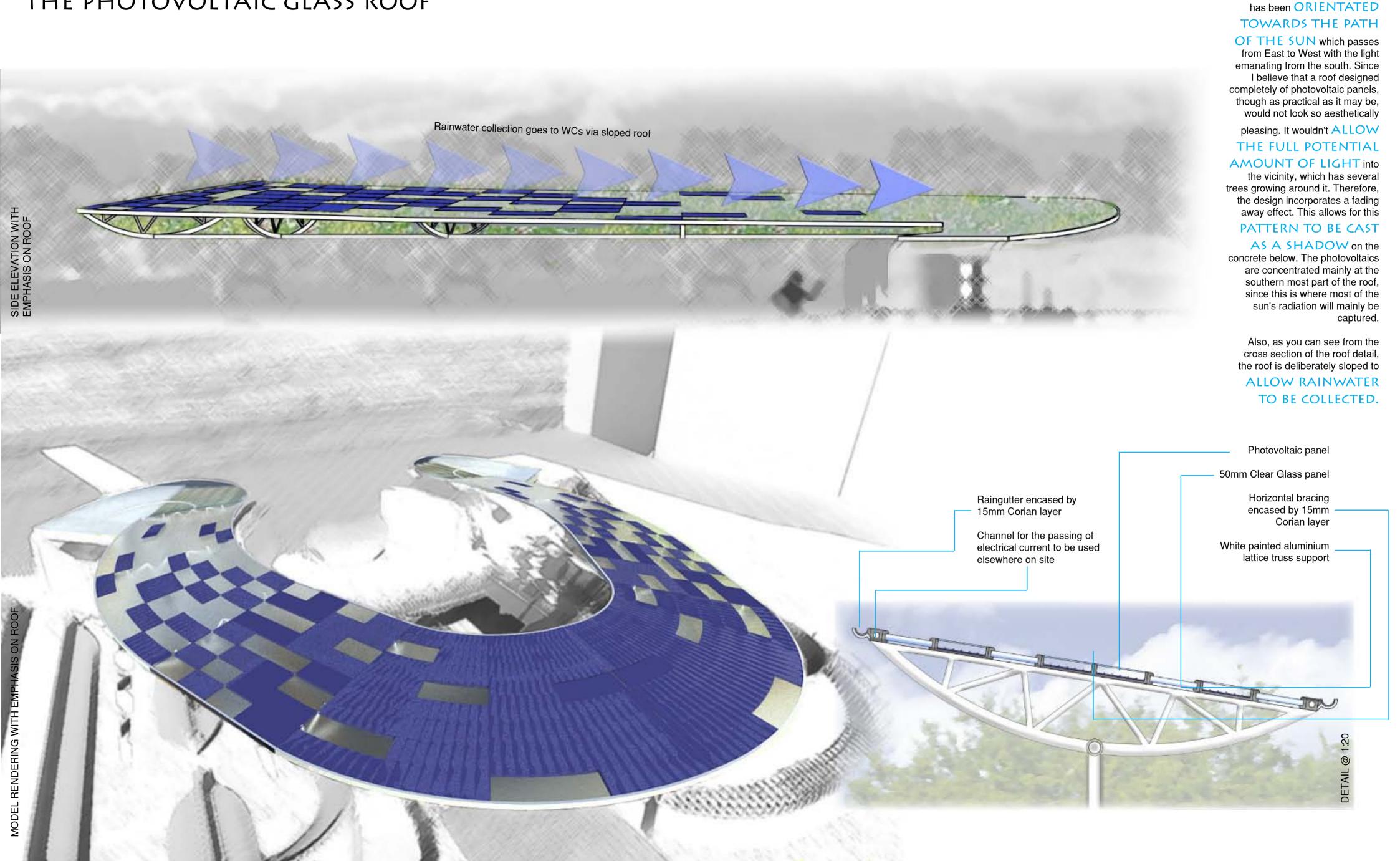






The uniquely designed roof

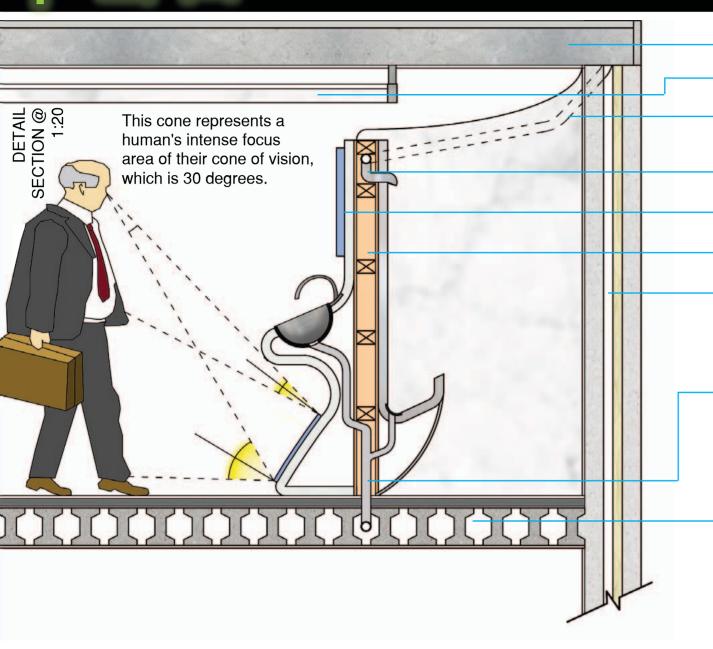
THE PHOTOVOLTAIC GLASS ROOF











200mm concrete ceiling slab

Ceiling fixed lighting system

Dotted line indicates rainwater pipe feed into WC chamber

Urinal wash

Mirrors

Timber studwork wall

Partial fill wall construction;

50mm cavity / 50mm insulation 102.5mm recycled concrete inner and outer leaves

Drainage piping

Pipe sizing BS5572

Wash Basin - 2 discharge units, so - 40mm diameter pipe

Urinal - 1 discharge unit - 32mm diameter pipe

Floor construction:

15mm rubber floor finish

40mm screed

6mm resilient layer

200mm Precast I Beams

15mm ceiling finish

Pipework is deliberately

WC DETAILS

After rainwater is collected via the roof above, it is

CHANNELLED INTO

THE WC5 for usage. In this section, you can see that rainwater is used to clean the urinal for instance. However, it is also used to flush the toilets. The rainwater

cavity void in the exterior wall construction. In plan, you can see how

is brought inside via the

rainwater is filtered down into both floors of the facility via THE TRADITIONAL

SINGLE STACK **SYSTEM.** Discharged

water is TRANSFERRED

OUT VIA VOIDS between the precast concrete

I-beams.

concealed to PREVENT POTENTIAL VANDALISM.

On the side of the wash basins, there are two mirrors. One standard one for users to check what their face and torso look like and also another one incorporated lower, which

will ALLOW THE USER TO SEE WHAT THEIR LOWER BODY LOOKS LIKE. THIS SYSTEM IS DESIGNED FOR THOSE ATTENDING **EVENTS AND ARE**

wanting to look their best. Nothing is worse than discovering wet patches on your clothing before heading out to an important event! The diagram indicates how their vision reflects into the mirror which is slightly convex to allow a larger view of below.

Recycled Rubber flooring is used as the floor material

AESTHETICALLY PLEASING AND GREAT FOR THE

since it is TOUGH,

well. Also, it is CHEAP

ENVIRONMENT as

and its **SUPPLY IS** ABUNDANT. An ABS

foot pedal is used as the flush instead of the traditional flush with the hand, because it is

MORE SANITARY. It PREVENTS THE SPREAD OF GERMS thus illnesses since bacteria does not come into contact with the skin.

The doors of the WC

chambers swing outwards

as ANOTHER

MEANS OF BEING SANITARY. The door can be pushed with the clothed arm. However, this does create a danger with

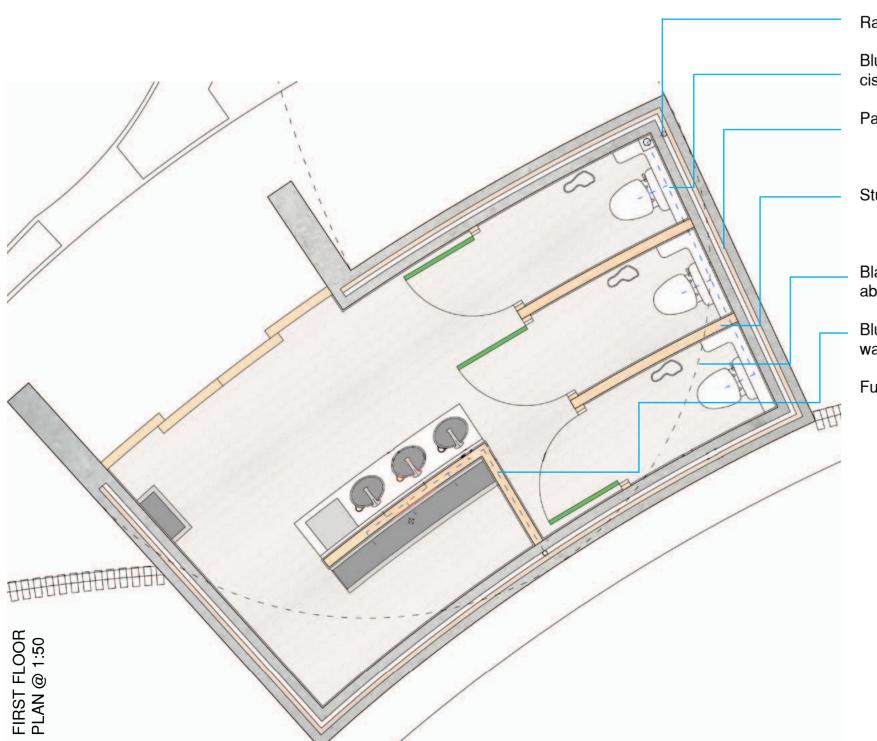
the doors are made from SMART GLASS

TECHNOLOGY.

the next user standing so

close to the door. Therefore,

Glass turns opaque when occupied and the door locks. So when the door unlocks, the glass comes clear which give the next user warning to stay back and allow the current user to leave.



Rainwater intake

Blue dotted line represents encased pipework that feeds toilet cisterns

Partial fill wall construction;

50mm cavity / 50mm insulation

102.5mm recycled concrete inner and outer leaves

Studwork timber walls

15mm plasterboard surrounded by 100mm timber studwork

Black dotted line represents positions of photovoltaic glass roof above - Rainwater intake connects to roof above

Blue dotted line represents encased pipework that feeds urinal wash

Full fill wall construction;

100mm cavity

102.5mm recycled concrete inner and outer leaves

