



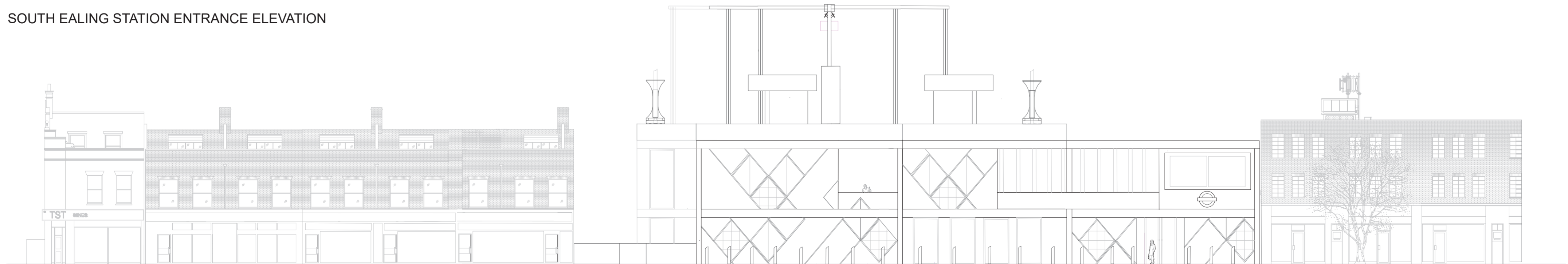
PROJECT DESCRIPTION

The Eco-Tech Futuristic Train station represents how the future of train stations can become futuristic sustainable drone tech hubs along with evolving interior spaces for the community and education spaces for all users. Train stations are thriving hubs of users completing a journey daily for which technology and its evolving changes can play a crucial part to these users and bring the community together. A station which provides opportunities for integration of the diverse community and culture around to be incorporated. This proposal identifies how the technology of drones and sustainability can create eco-tech sustainable train stations with layers of activities for all users with sustainability incorporated into the construction and environment. A train station which builds with the technology of drones and uses its crucial advantages for the deliveries of retail, medical, educational and all uses.

USERS

Users of the train station include local residents, travellers, commuters, tourists, business people and also students, staff & lecturers. Users also include the Heathrow Airport passengers who can use the capsule accommodation and luggage lockers for use. Also, co-working space which can be used by students and office workers. Design of the train station represents a sustainable leisure, business and community base train station hub. Made with timber along with skin facade with elements of the solar panels panelling, moving hinge skin & facade skin which neutralises the air pollutants into harmless chemicals. Sustainability design elements transit into the roof where it is supported by the drone delivery launch pad and the wind turbines.

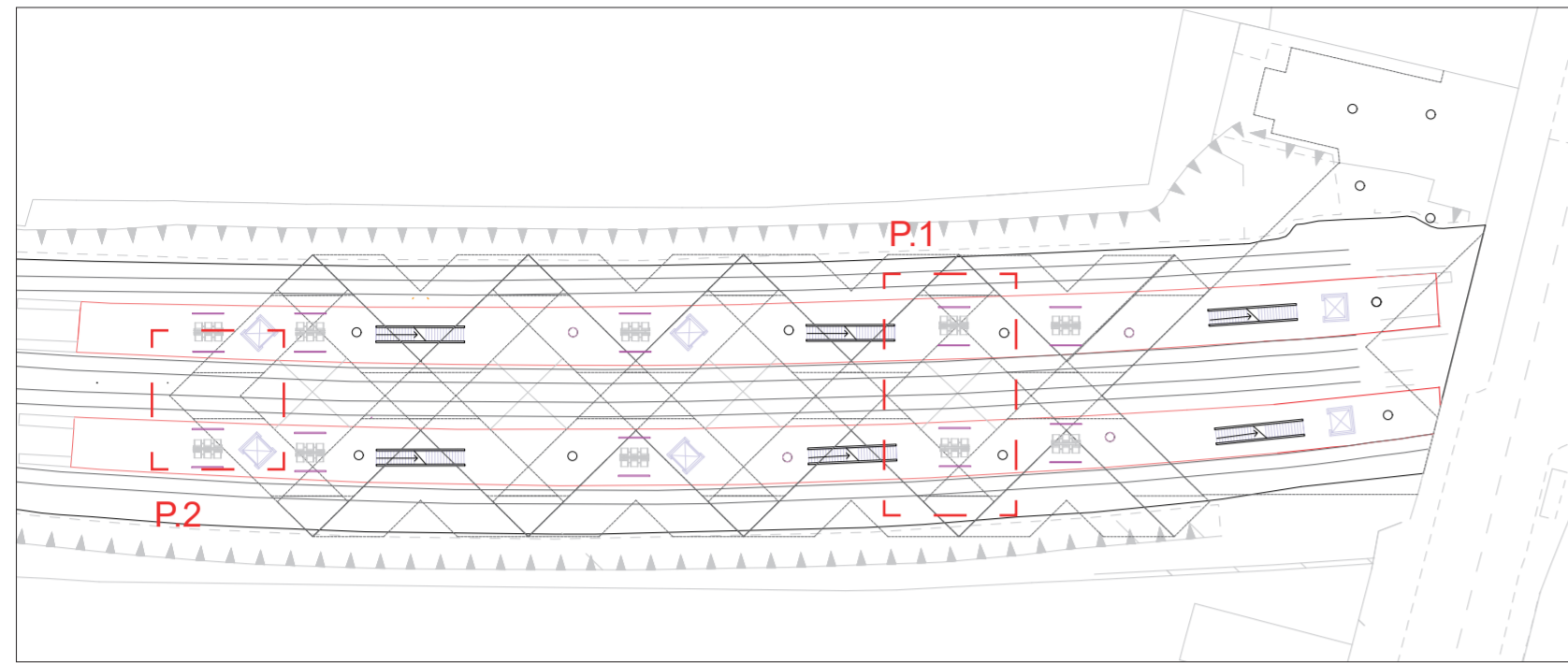
SOUTH EALING STATION ENTRANCE ELEVATION



0 2m 4m 6m 8m 10m 12m
SCALE 1:200

PLATFORM PLAN

The platform plan shows access to the platform with the sheltered zoned seating for the waiting areas



P.1 | Platform View

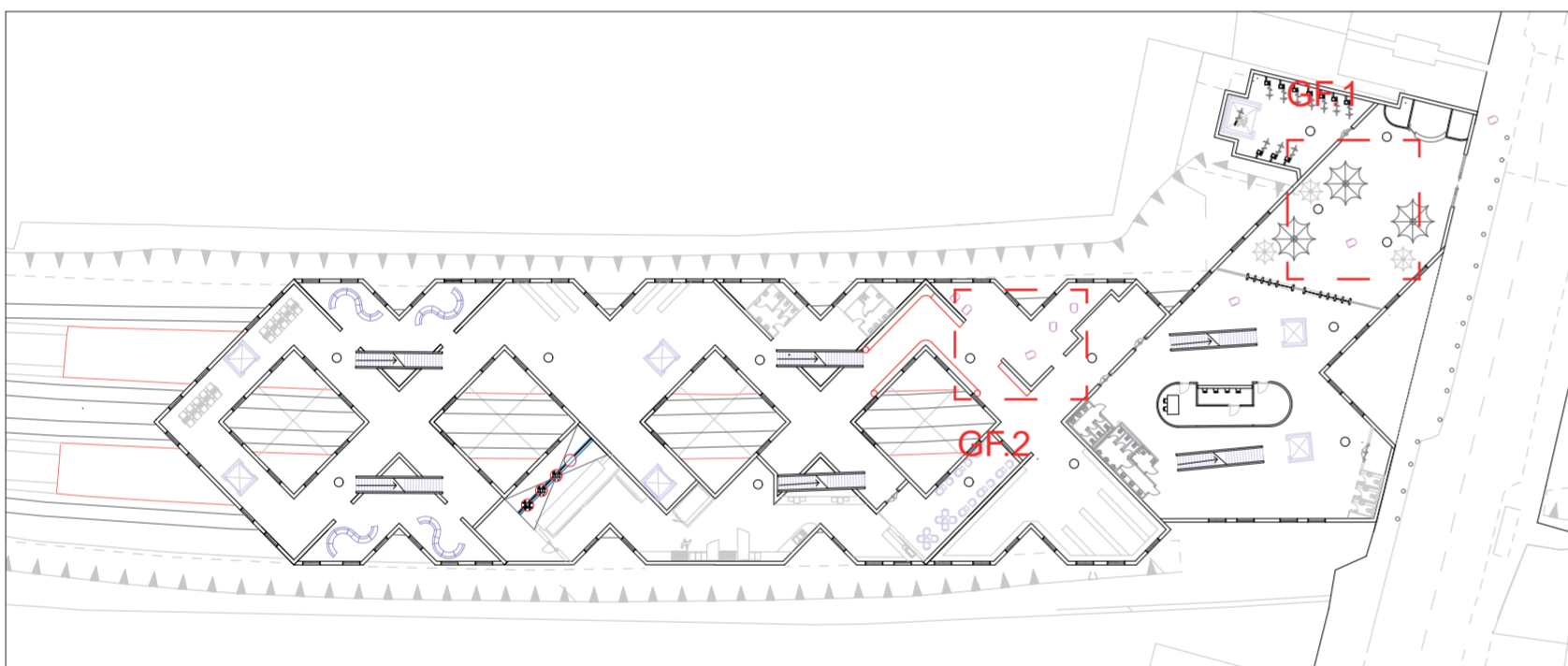


P.2 | External Platform View



GROUND FLOOR PLAN

Ground floor of the train station has access to the community market, e-bike charging station access and also facilities like luggage locker, virtual retail area, cafe and waiting areas



GF.1 | Entrance + Community Market

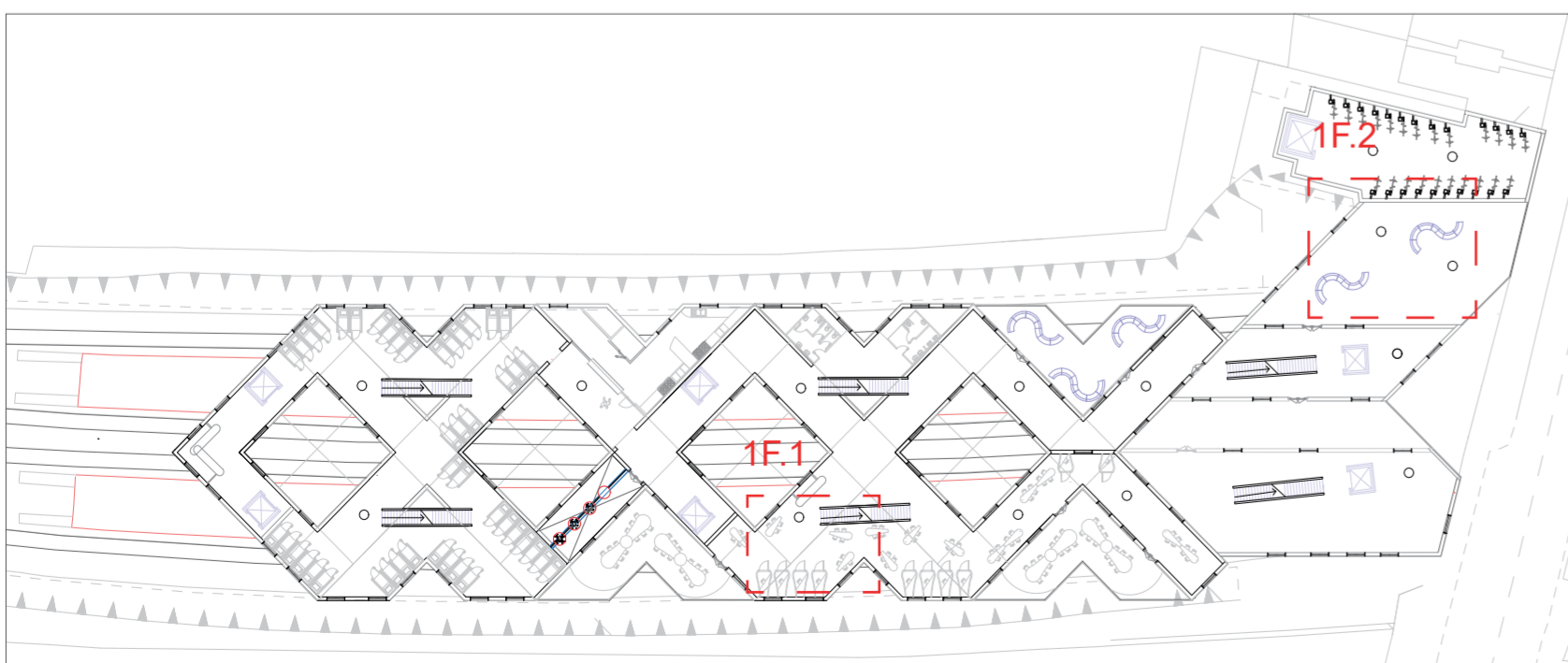


GF.2 | Virtual Retail Wall + Delivery Robot Charging Hub



FIRST FLOOR PLAN

First floor has access to short stay capsule accommodation for Heathrow Airport Passengers, Tourists etc. Co-Working space for use by students and lecturers for work. Also, a seating area which has views to the drones outside



1F.1 | Co-Working Space



1F.2 | Seating Area with Drone View Platform



AXONOMETRIC

Columns

Co-Working Space

Seating Area

Kitchen Drone Wall

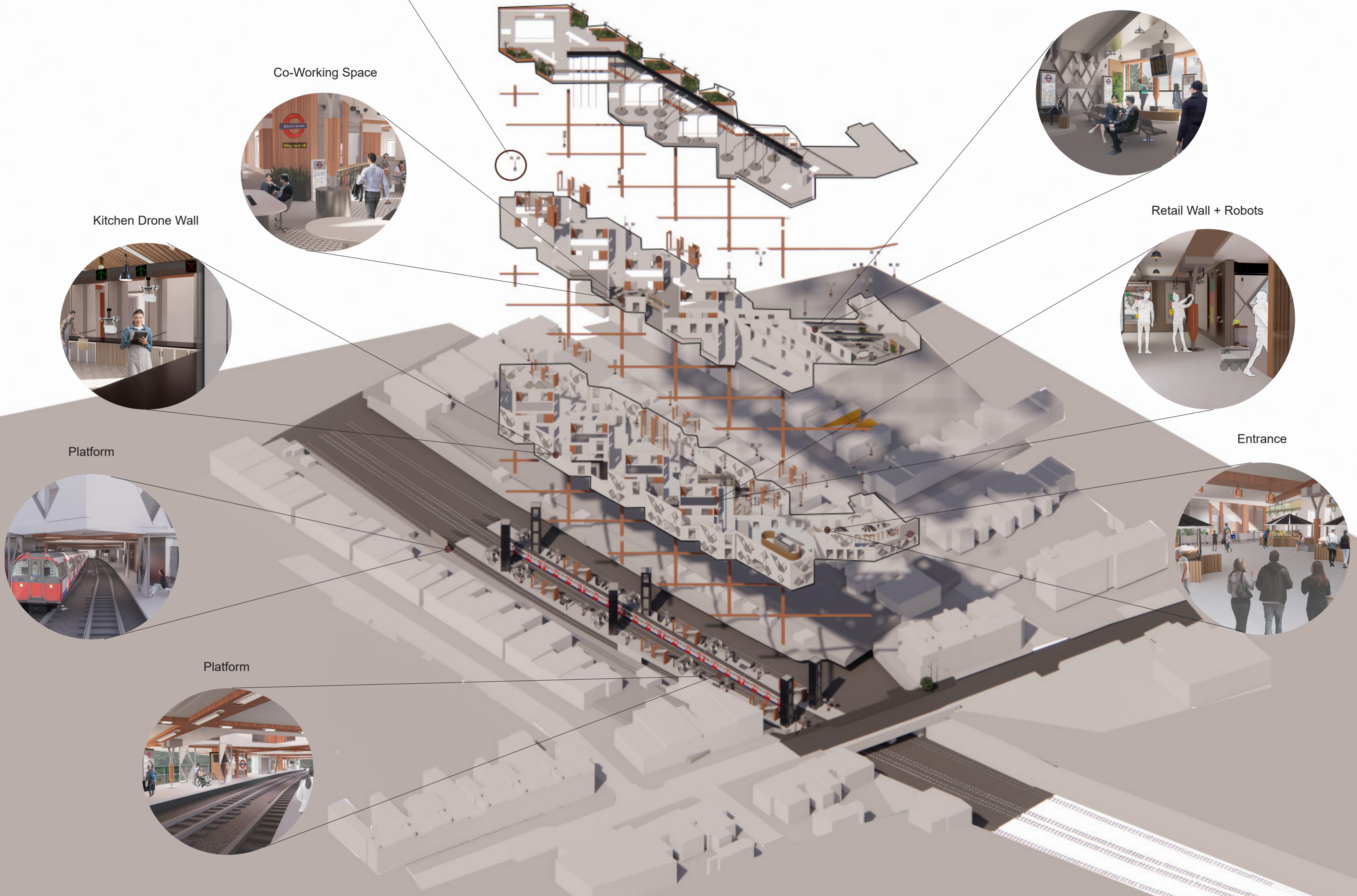
Retail Wall + Robots

Entrance

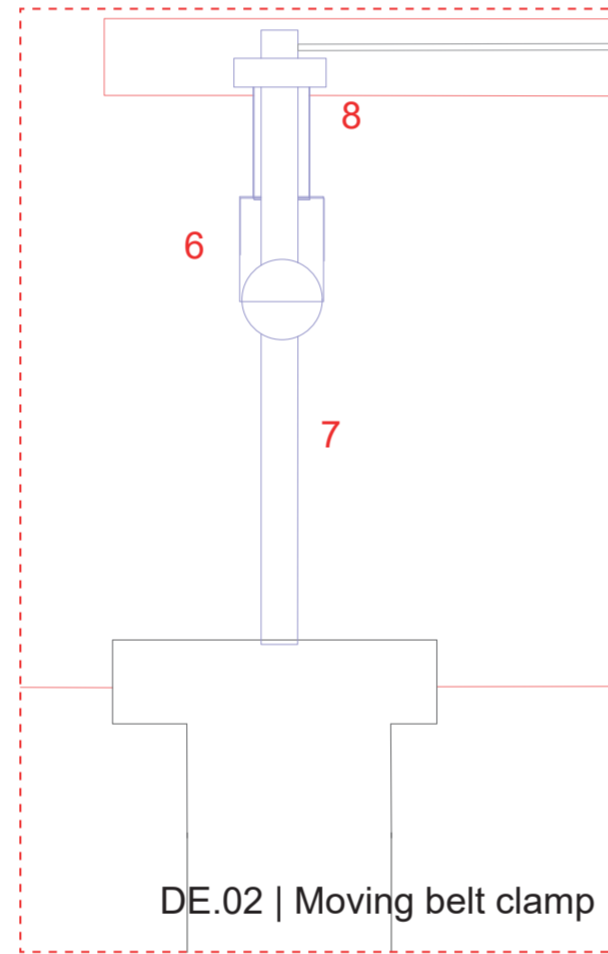
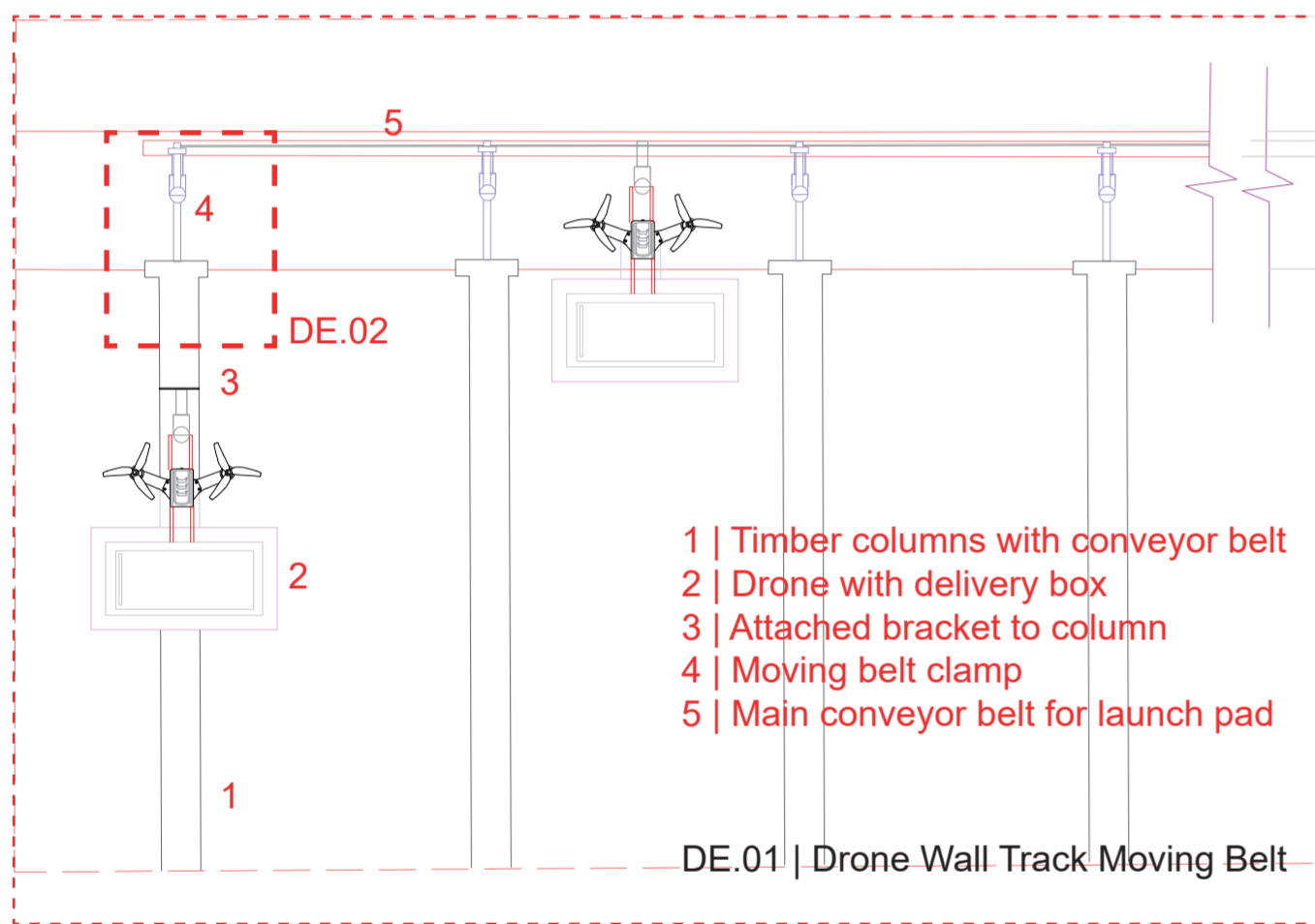
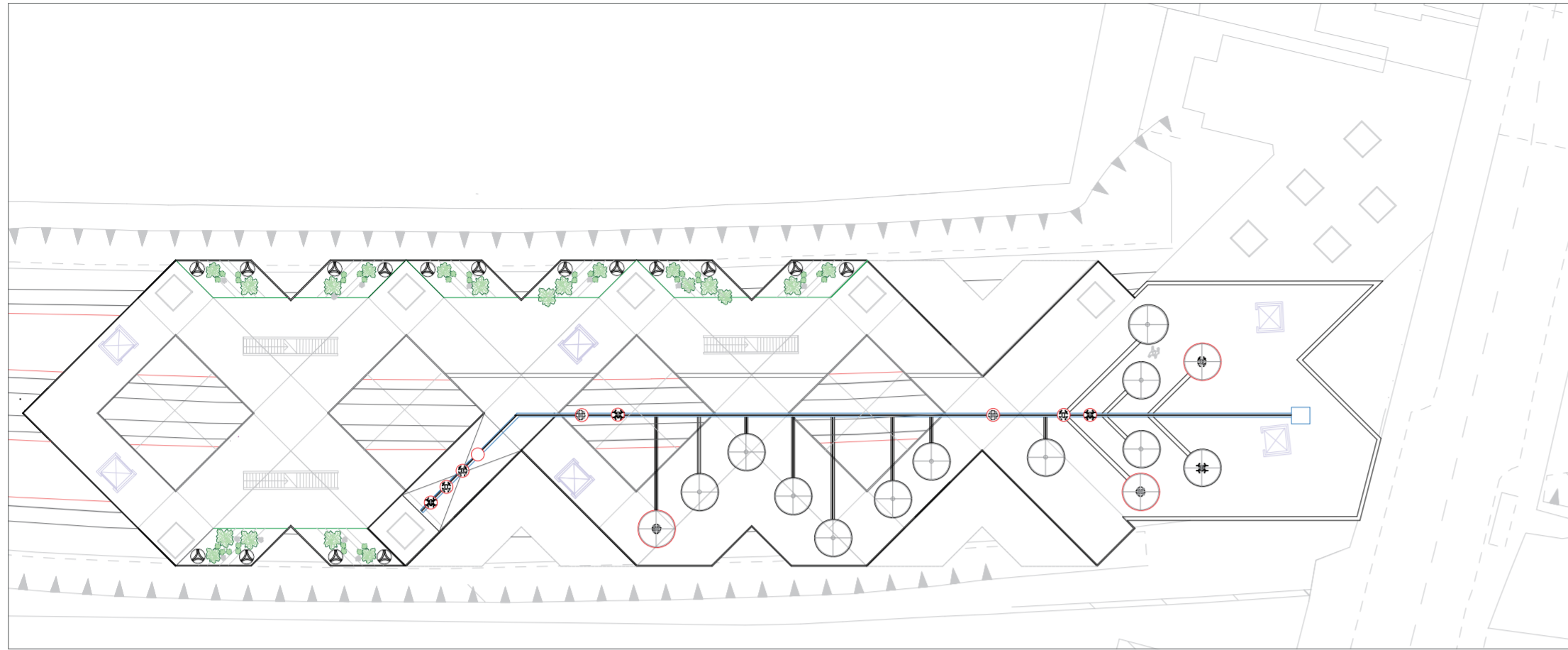
Platform

Platform

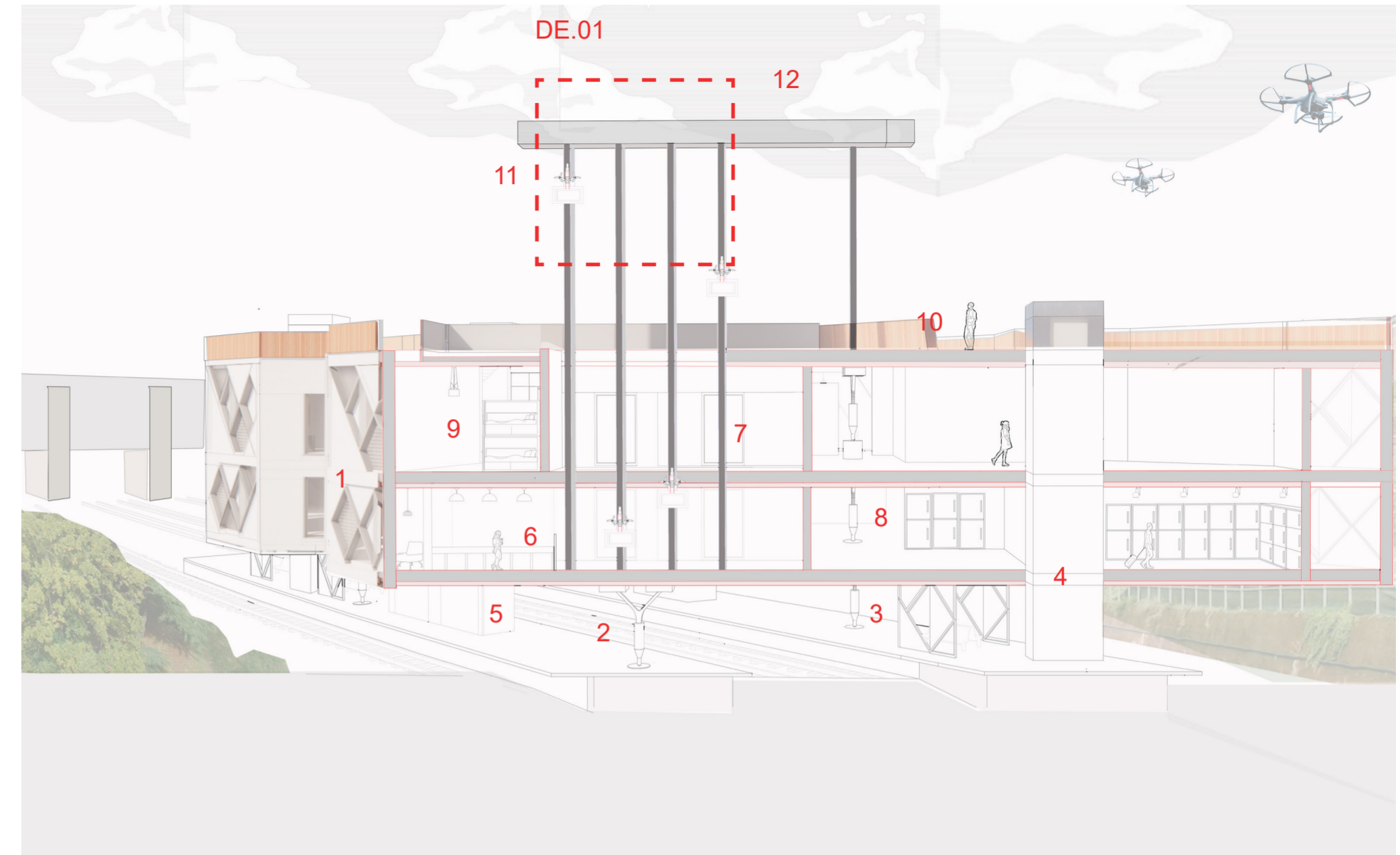
PROPOSAL + LAYOUT



ROOF PLAN



SECTION A-A



- 1 | External Facade Skin
- 2 | Platform and columns
- 3 | Sheltered seating area
- 4 | Lifts
- 5 | Seating Area
- 6 | Drone Delivery Packing Area
- 7 | Drone Wall Track Moving Belt
- 8 | Luggage Lockers
- 9 | Capsule Accommodation
- 10 | Roof
- 11 | Packed Drones
- 12 | Roof moving track belt

Roof of the train station has the community gardens and drone delivery launch hub. These drones would be used for delivery for food, retail, medical etc and helps to promote the local businesses and communities for Ealing. Drone delivery attached to cafe kitchen delivers to the local Ealing and around Heathrow Airport. Also delivers for the local businesses and communities

Community Garden + Wind Turbines



Roof View Overall



Drone Kitchen Wall + Launch Conveyor Belt

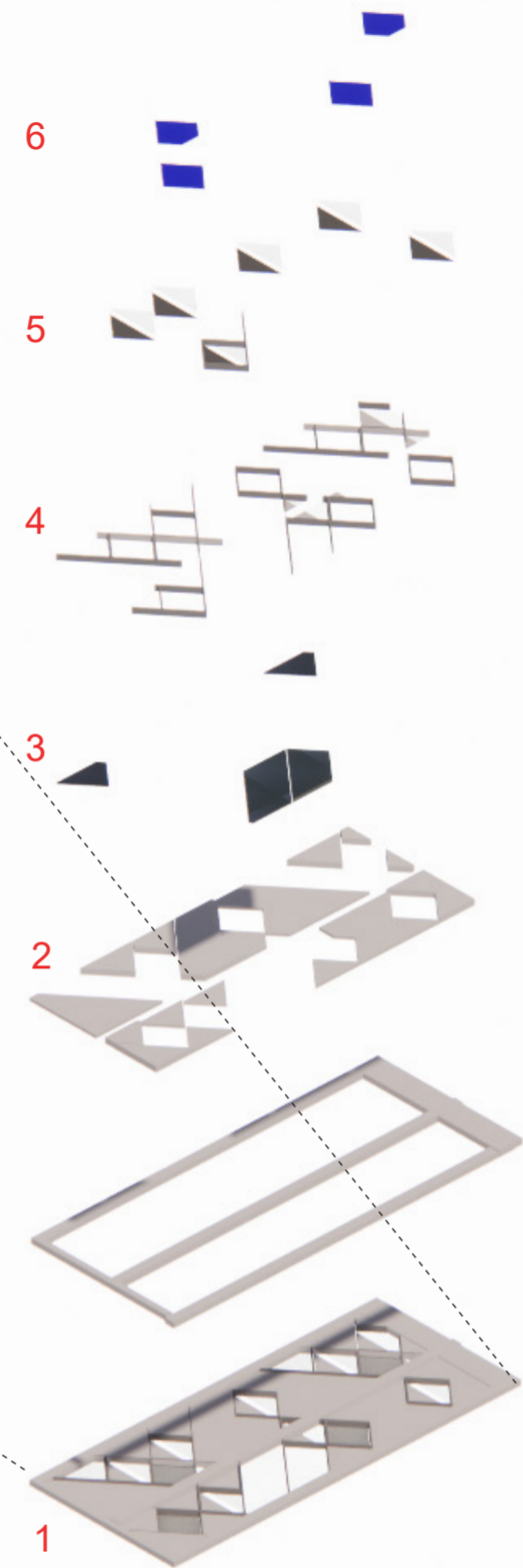
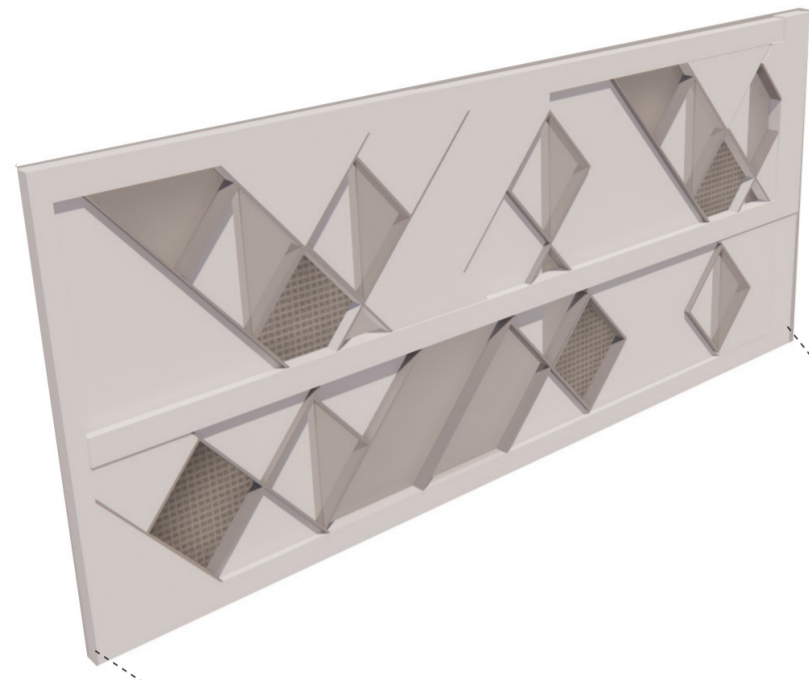


ROOF DRONE HUB

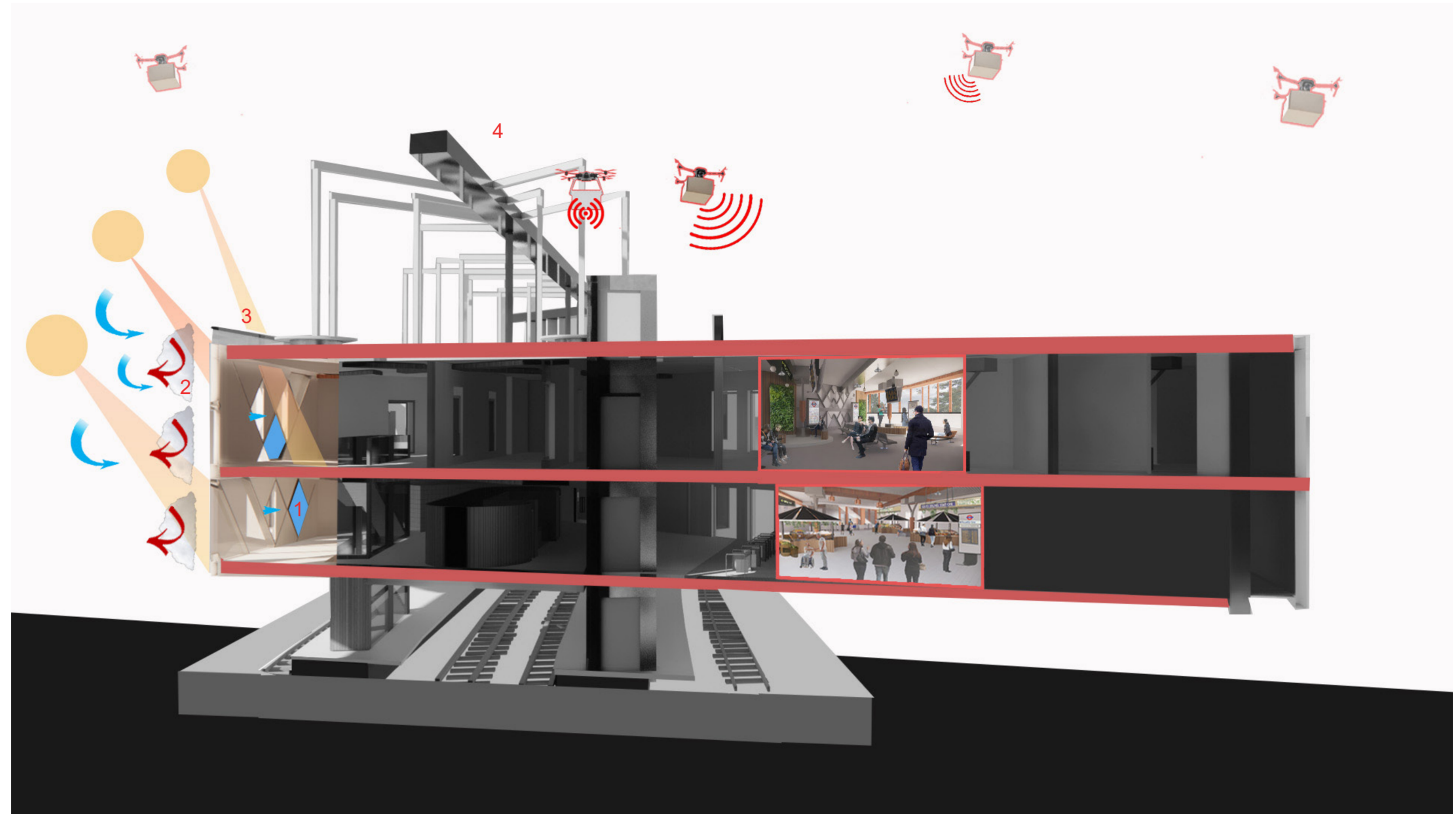
Exterior Skin Facade Axonometric

FACADE SKIN + DRONES

Design of the train station represents a sustainable leisure, business and community base train station hub. Made with timber along with skin facade with elements of the solar panels panelling, moving hinge skin & facade skin which neutralises the air pollutants into harmless chemicals. Sustainability design elements transit into the roof where it is supported by the drone delivery launch pad and the wind turbines.



- 1 | Timber Frame
- 2 | Timber Panelling surface with titanium dioxide-based pigment
- 3 | Glass window panels
- 4 | Timber Panel Structure
- 5 | Moving open and close hinge window panels
- 6 | Solar Panels



ELEVATIONS



1 | The building skin structure is panelled with solar panels for renewable energy which can be used for the operation of the train station as well as the charging of the e-bikes and drone launch pad

2 | Facade skin has hinge moving panels which open and close to let in breeze in and can open and close by use of a mechanism. These panels also can operate automatically as part of the facade skin

3 | The timber panels of the skin contains the titanium dioxide-based pigment. This neutralises air pollutants into harmless chemicals as a chemical reaction takes place between the structure and chemicals. This skin is very important in reducing the pollution levels, therefore the train station skin helps to reduce the pollution levels nearby

4 | The drones at the roof are for deliveries and would have sensors and detection to track routes and deliveries