View of central signature garden with platform cloister on left and marketplace cloister on right.

Community face

Our station design faces and embraces the local community with a covered cloister for local uses such as market stalls, charge points and bike park and ride spaces.

The cloister is mirrored to face the railway, welcoming arriving visitors into a locally generated marketplace. Glazed walls connect platform and community to a central Garden.

A JOURNEY TO A SOLUTION:

Current condition

A station for well-being

Welcome the local community to the railway network

Welcome visitors to the local community

Hortus Loci

Local station gardens would become a regional symbol, expressing the variety and diversity of UK plants, as a source of local pride and an appropriate local welcome to visitors. We will work with a leading horticultural institution to systematically develop the gardens with local communities.

By connecting people to nature, gardens have proven well-being and mental health benefits for us all, soothing anxious travellers and creating a green heart to an often noisy and harsh environment.

One-flowered Wintergreen / Dalwhinnie Station
Killarney Fern / Grindleford Station
Dyer's greenweed / Eridge Station

We are working with a leading UK horticultural institution to develop thematic gardens appropriate to their setting and local flora. These would have educational potential.

Canopy

The engineered timber 'trees' create a wonderfully adaptive structure. They minimise embodied energy and combine with the Garden to form a 'woodland glade'.
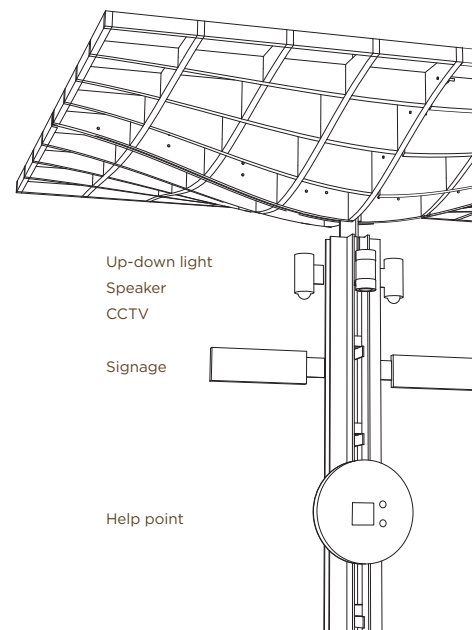
Sheltering canopies have often been treated as awkward add-ons to station buildings, so here they are integral, creating internal and external cloisters to face both railway and community. They harness solar power in any orientation and collect rainfall to irrigate the garden.

We have taken inspiration from a traditional Japanese courtyard garden, distilling the beauty and power of the natural landscape to create a contemplative and peaceful space in the heart of the station.

Station Components

The tree canopies and modular pods accommodate CCTV, speakers, help points, wifi beacons, signage and customer information systems. These components require regular spacing to comply with performance standards so some canopies will be designated 'service trees' where equipment is mounted on the trunk, freeing the canopy of services and providing safe working height for access and maintenance.
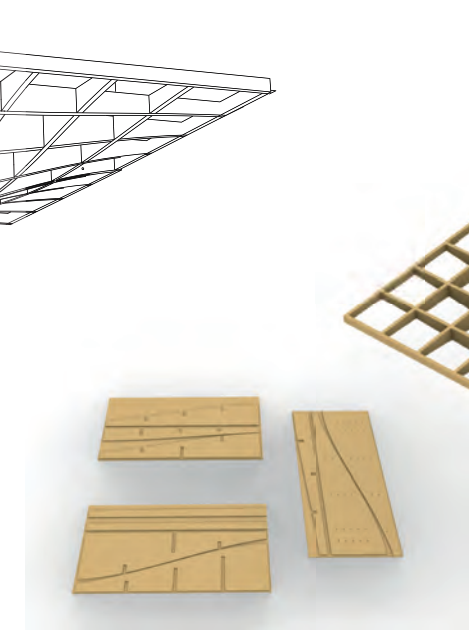

Up-down light
Speaker
CCTV

Signage

Help point
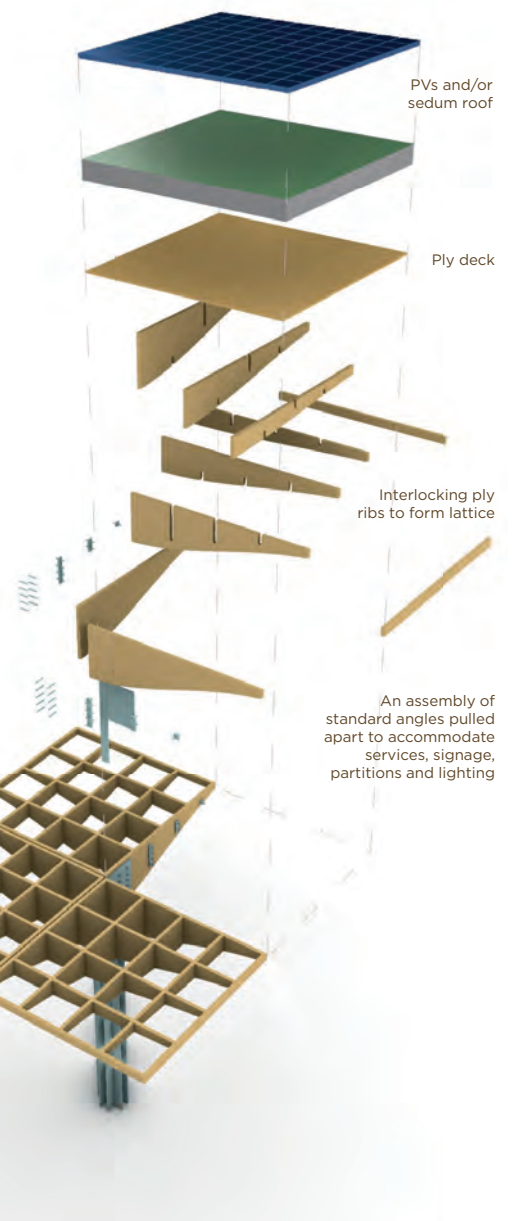
Services as the nutrients to a typical tree module.

Scaling Up

By designing a part of the station as an independent structure, there is an ease to scaling up naturally for larger stations.

The canopy is a simply repeating module configurable to any size of station, new or existing. The design is fabricated from a kit of parts allowing fabrication by a local contractor using easily sourced materials.

PVs and/or sedum roof
Ply deck
Interlocking ply ribs to form lattice
An assembly of standard angles pulled apart to accommodate services, signage, partitions and lighting

The BIM model can produce cutting schedules from standard plywood sheets, creating an efficient, minimal waste approach, designed to be easily transported to site and erected safely.

Exploded view of a structural tree.

1 TREE + MOBILE HORTUS LOCI
Shelter: 23m²

4 TREES
Shelter: 46m²
Internal: 46m²

8 TREES
Shelter: 69m²
Internal: 115m²

20 TREES
Shelter: 160m²
Internal: 300m²

EXTEND WING - PLATFORM SHELTER
EXTEND WING MARKET PLACE
EXTEND WING PLATFORM SHELTER
EXTEND WING MARKET PLACE

1 SHELTER + COMMUNITY THRESHOLD

1 INTERIOR + SHELTER

RAILWAY   COMMUNITY
INSIDE

1 SHELTERED GARDEN (HORTUS LOCI)

2 DEEP PLATFORM SHELTER (GREEN SCREENS)

2 STATION GARDEN (HORTUS LOCI)

2 INDOOR GARDEN (138m² INTERIOR)

1 COMMUNITY INTEGRATION STATION

PV'S
BIKE PARK N RIDE   OPERATIONS DRIVERS   WC'S   GARDEN RAINWATER RECYCLING   AGILE WORK CAFE/INFO   STORES   CHARGING STATION

3 INFORMATION + TICKETING

3 LARGER INTERIOR + SKYSPACE CAFE / AGILE WORKPLACE / MARKET

DAYLIGHT
STPE

3 STATION HUB (138m² INTERIOR)

4 AGILE WORKPLACE

PV

5 POP-UP STALLS MARKET PLACE

6 CHARGING HUB

PV

PLAN OF AN 8 TREE STATION

WC
CAFE
INFO

PLAN OF A 20 TREE STATION CENTRED AROUND A GARDEN, WITH ADDITIONAL PLATFORM AND FORECOURT WINGS

STAFF   WC   CAFE
8 BIKE SPACES   ACCOM.   WC   INFO   8 BIKE SPACES
BUS TAXIS   FRAMED CIVIC SPACE   DROP OFF   PARKING
HOPPA

SHELTERED SOCIAL SEATING
PLANTERS/WIND SCREENING
WHEELCHAIR ACCESSIBLE PARKING
COMMUNITY CAR SHARE/HIRE (ELECTRIC)
ELECTRIC SHUTTLE BUS